

# ANNUAL REPORT OF THE SECRETARY

1987



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

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



**IEEE**

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

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

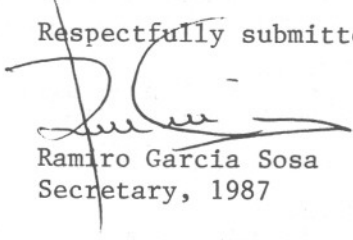
Dear Members of the Board:

Part I of the Report of the Secretary for 1987 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,



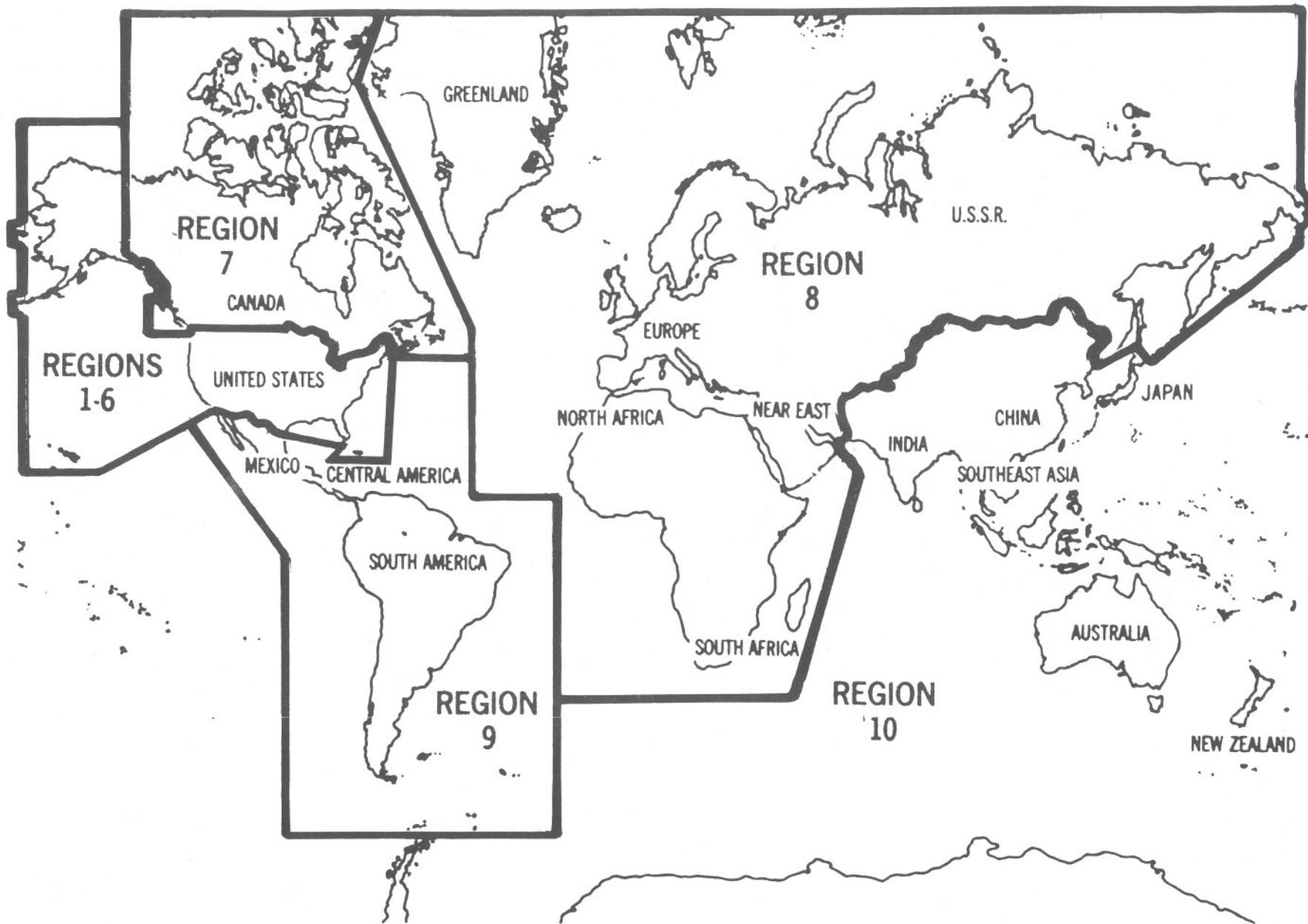
Ramiro Garcia Sosa  
Secretary, 1987

February 1988

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SECTION A

TABLE 1 - IEEE MEMBERSHIP BY REGION AND GRADE  
DECEMBER 31, 1987

	<u>H</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>VOTING MEMBERS</u>	<u>A</u>	<u>HIGHER GRADE SUBTOTAL</u>	<u>S</u>	<u>TOTAL MEMBERSHIP</u>	<u>% OF TOTAL</u>
REGION 1	3	983	4,673	36,128	41,787	4,117	45,904	7,175	53,079	18.1
REGION 2	1	587	3,671	26,361	30,620	2,118	32,738	5,247	37,985	13.0
REGION 3		378	2,995	20,600	23,973	1,761	25,734	5,584	31,318	10.7
REGION 4	1	255	1,989	17,948	20,193	1,633	21,826	6,102	27,928	9.5
REGION 5	1	211	1,956	19,247	21,415	1,194	22,609	4,906	27,515	9.4
REGION 6	6	791	4,760	41,863	47,420	3,101	50,521	6,568	57,089	19.5
REG 1-6 SUBTOTAL	12	3,205	20,044	162,147	185,408	13,924	199,332	35,582	234,914	80.2
REGION 7		104	887	8,929	9,920	1,449	11,369	3,660	15,029	5.1
REGION 8	1	246	1,416	11,838	13,501	1,281	14,782	3,112	17,894	6.1
REGION 9		12	289	3,032	3,333	382	3,715	2,408	6,123	2.1
REGION 10	2	181	1,083	12,526	13,792	929	14,721	4,448	19,169	6.5
REG 7-10 SUBTOTAL	3	543	3,675	36,325	40,546	4,041	44,587	13,628	58,215	19.8
TOTAL	15	3,748	23,719	198,472	225,954	17,965	243,919	49,210	293,129	100.0
PERCENTAGE		1.3	8.1	67.7	77.1	6.1	83.2	16.8	100.0	

TABLE 2 - IEEE MEMBERSHIP BY REGION - 3 YEAR COMPARISON, 1985-1987

	<u>DECEMBER 31, 1987</u>		<u>DECEMBER 31, 1986</u>		<u>DECEMBER 31, 1985</u>	
	<u>NUMBER</u>	<u>% OF TOTAL</u>	<u>NUMBER</u>	<u>% OF TOTAL</u>	<u>NUMBER</u>	<u>% OF TOTAL</u>
REGION 1	53,079	18.1	52,071	18.4	51,252	18.7
REGION 2	37,985	13.0	36,551	12.9	35,635	13.0
REGION 3	31,318	10.7	30,425	10.8	29,633	10.8
REGION 4	27,928	9.5	27,655	9.8	26,700	9.8
REGION 5	27,515	9.4	27,183	9.6	27,121	9.9
REGION 6	57,089	19.5	55,037	19.5	53,809	19.8
REG 1-6 SUBTOTAL	234,914	80.2	228,922	81.0	224,150	82.0
REGION 7	15,029	5.1	14,713	5.2	14,082	5.1
REGION 8	17,894	6.1	16,354	5.8	15,068	5.5
REGION 9	6,123	2.1	5,392	1.9	4,504	1.6
REGION 10	19,169	6.5	17,327	6.1	15,896	5.8
REG 7-10 SUBTOTAL	58,215	19.8	53,786	19.0	49,550	18.0
TOTAL	293,129	100.0	282,708	100.0	273,700	100.0

## SECTION A

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

	<u>DEC. 31, 1987</u>	<u>DEC. 31, 1986</u>	<u>DEC. 31, 1985</u>
FELLOW	1,730	1,697	1,662
SENIOR MEMBER	7,116	6,633	6,207
MEMBER	5,685	4,982	4,455
ASSOCIATE	534	463	404
TOTAL	15,065	13,775	12,728

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

	<u>DEC. 31, 1987</u>	<u>DEC. 31, 1986</u>	<u>DEC. 31, 1985</u>
FELLOW	13	13	13
SENIOR MEMBER	136	128	120
MEMBER	9,230	8,610	7,733
ASSOCIATE	1,034	1,141	1,003
STUDENT	5,986	5,821	6,006
TOTAL	16,399	15,713	14,875

TABLE 5 - IEEE MEMBERSHIP BY GRADE, 1963 - 1987

<u>YEAR</u>	<u>H</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>VOTING MEMBERS</u>	<u>A</u>	<u>HIGHER GRADE SUBTOTAL</u>	<u>S</u>	<u>TOTAL</u>
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

## SECTION A

TABLE 6 - IEEE MEMBERSHIP CHANGES, BY GRADE, DURING CALENDAR YEAR 1987, 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 12/31/86	13	3,678	23,704	188,939	18,483	234,817	47,891	282,708
ADDITIONS								
ELECTIONS	2	2	168	13,067	835	14,074	29,012	43,086
DUES ARREARS PAID		128	999	15,842	1,772	18,741	4,256	22,997
REINSTATEMENTS		4	65	1,398	172	1,639	456	2,095
TRANSFERS TO		<u>259</u>	<u>1,330</u>	<u>27,547</u>	<u>3,005</u>	<u>32,141</u>	<u>5,666</u>	<u>37,807</u>
TOTAL ADDITIONS	<u>2</u>	<u>393</u>	<u>2,562</u>	<u>57,854</u>	<u>5,784</u>	<u>66,595</u>	<u>39,390</u>	<u>105,985</u>
DELETIONS								
RESIGNATIONS		8	98	890	161	1,157	82	1,239
DECEASED		76	220	267	36	599	2	601
DUES ARREARS		135	1,358	37,883	5,513	44,889	11,028	55,917
TRANSFERS FROM		<u>104</u>	<u>871</u>	<u>9,281</u>	<u>592</u>	<u>10,848</u>	<u>26,959</u>	<u>37,807</u>
TOTAL DELETIONS	<u>0</u>	<u>323</u>	<u>2,547</u>	<u>48,321</u>	<u>6,302</u>	<u>57,493</u>	<u>38,071</u>	<u>95,564</u>
ACTIVE MEMBERSHIP 12/31/87	15	3,748	23,719	198,472	17,965	243,919	49,210	293,129
GAIN/LOSS	+2	+70	+15	+9,533	-518	+9,102	+1,319	+10,421
NET ARREARS	-	8	360	22,026	3,739	26,133	6,758	32,891
			<u>DECEMBER 31, 1987</u>	<u>DECEMBER 31, 1986</u>	<u>DECEMBER 31, 1985</u>			
ADDITIONS								
ELECTIONS		43,086		40,859		40,778		
REINSTATEMENTS		2,095		1,980		1,586		
DUE ARREARS PAID		<u>22,997</u>		<u>23,754</u>		<u>23,412</u>		
TOTAL ADDITIONS		68,178		66,593		65,776		
DELETIONS								
RESIGNATIONS		1,239		752		713		
DECEASED		601		580		590		
DUES ARREARS		<u>55,917</u>		<u>56,253</u>		<u>53,424</u>		
TOTAL DELETIONS		57,759		57,585		54,727		
NET GAIN/LOSS		+10,421		+11,049		+14,376		



## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1987

## REGION 1

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL	S		
01 00 01	BERKSHIRE		16	65	157	9	247	14		261
01 00 03	BINGHAMTON		5	73	592	62	732	77		809
01 01 05	BOSTON (CNEC)	2	212	882	7783	694	9573	1228		10801
01 01 05 03	MERRIMACK VALLEY (CNEC)		(15)	(124)	(1486)	(127)	(1752)	(160)	(1912)	
01 01 05 01	NORTHSHORE (CNEC)		(6)	(35)	(279)	(28)	(348)	(31)	(379)	
01 00 07	BUFFALO		5	111	627	67	810	386		1196
01 00 09	CONNECTICUT		48	366	2976	400	3790	495		4285
01 00 09 05	DANBURY		(10)	(93)	(821)	(81)	(1005)	(54)	(1059)	
01 00 09 03	NEW LONDON		(4)	(35)	(357)	(31)	(427)	(72)	(499)	
01 00 13	ITHACA		20	25	149	11	205	228		433
01 03 15	LONG ISLAND (METSAC)		65	418	3076	387	3946	285		4231
01 01 17	MAINE (CNEC)		5	52	366	35	458	97		555
01 00 19	MID-HUDSON		20	130	1003	107	1260	89		1349
01 00 21	MOHAWK VALLEY		11	68	488	32	599	280		879
01 00 21 01	ST. LAWRENCE INT'L		(3)	(13)	(83)	(18)	(117)	(211)	(328)	
01 01 23	NEW HAMPSHIRE (CNEC)		22	131	1246	149	1548	138		1686
01 00 45	NEW JERSEY COAST		92	311	2162	177	2742	172		2914
01 03 25	NEW YORK (METSAC)		94	480	4369	819	5762	1340		7102
01 03 25 03	WESTCHESTER		(56)	(189)	(1394)	(189)	(1828)	(142)	(1970)	
01 03 27	NORTH JERSEY (METSAC)	1	132	572	4127	476	5308	550		5858
01 03 29	PRINCETON (METSAC)		75	250	2073	242	2640	431		3071
01 01 31	PROVIDENCE (CNEC)		18	102	1121	96	1337	232		1569
01 00 33	ROCHESTER		10	109	988	112	1219	218		1437
01 00 35	SCHENECTADY		88	262	712	55	1117	231		1348
01 00 37	SPRINGFIELD		7	32	308	24	371	226		597
01 00 39	SYRACUSE		26	126	671	47	870	158		1028
01 00 41	VERMONT		7	43	360	45	455	136		591
01 01 43	WORCESTER COUNTY (CNEC)		5	65	774	71	915	164		1079
	<u>REGION 1 TOTALS</u>	3	983	4673	36128	4117	45904	7175		53079
	<u>COUNCIL TOTALS</u>									
01 01	CENTRAL NE COUNCIL (CNEC)	2	262	1232	11290	1045	13831	1859		15690
01 03	METRO SEC ADV COUNCIL (METSAC)	1	366	1720	13645	1924	17656	2606		20262

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1987

## REGION 2

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	HIGHER GRADE			SUBSECTION TOTAL	SECTION TOTAL
						A	SUBTOTAL	S		
02 00 01	AKRON		4	56	391	32	483	98		581
02 00 21	ALLEGHENY MOUNTAIN		1	9	47	8	65	12		77
02 00 03	BALTIMORE		40	372	3279	207	3898	288		4186
02 00 03 01	ANNAPOLIS		(13)	(93)	(990)	(59)	(1155)	(65)	(1220)	
02 00 05	CANTON			19	138	17	174	49		223
02 00 07	CENTRAL PENNSYLVANIA		11	58	289	7	365	368		733
02 00 09	CINCINNATI		9	65	640	47	761	137		898
02 00 11	CLEVELAND		27	180	1271	86	1564	335		1899
02 00 13	COLUMBUS		23	159	966	153	1301	469		1770
02 00 13 05	ZANESVILLE				(6)	(17)	(1)	(24)	(24)	
02 00 15	DAYTON		14	135	1153	95	1397	195		1592
02 00 17	DELAWARE BAY		5	51	356	26	438	79		517
02 00 47	EASTERN SHORE		4	22	108	15	149	12		161
02 00 23	ERIE		4	46	136	11	197	50		247
02 00 25	JOHNSTOWN		1	24	126	8	159	38		197
02 00 27	LEHIGH VALLEY		31	145	1074	112	1362	267		1629
02 00 29	LIMA		3	16	79	11	109	87		196
02 00 31	NORTH CENTRAL OHIO		1	13	54	14	82	7		89
02 01 49	NORTHERN VIRGINIA (NCAC)		58	479	4389	314	5240	315		5555
02 00 33	OHIO VALLEY			7	61	5	73	9		82
02 00 35	PHILADELPHIA			116	617	4296	352	5381	874	6255
02 00 37	PITTSBURGH	1	71	378	1920	118	2488	578		3066
02 00 37 01	UPPER MONONGAHELA		(2)	(12)	(99)	(4)	(117)	(65)	(182)	
02 00 39	SHARON		2	25	141	10	178	97		275
02 00 41	SOUTHERN NEW JERSEY		3	19	140	9	171	17		188
02 00 43	SUSQUEHANNA		8	65	479	80	632	113		745
02 01 19	WASHINGTON (NCAC)		150	698	4693	372	5913	692		6605
02 01 19 01	WESTERN MARYLAND (NCAC)		(1)	(10)	(145)	(24)	(180)	(12)	(192)	
02 00 45	WEST VIRGINIA		1	13	135	9	158	61		219
	<u>REGION 2 TOTALS</u>	1	587	3671	26361	2118	32738	5247		37985
	<u>COUNCIL TOTALS</u>									
02 01	NATL CAPITOL AREA COUNCIL NCAC		208	1177	9082	686	11153	1007		12160

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1987

## REGION 3

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
						A	SUBTOTAL		
03 00 01	ALABAMA		7	166	844	44	1061	324	1385
03 00 01 01	MONTGOMERY		(5)	(27)	(259)	(16)	(307)	(200)	(507)
03 00 03	ATLANTA		36	277	2171	257	2741	746	3487
03 00 03 05	ATHENS			(10)	(40)	(2)	(52)	(9)	(61)
03 00 03 01	ROME		(1)	(13)	(57)	(8)	(79)	(14)	(93)
03 00 05	BATON ROUGE		2	21	280	10	313	89	402
03 05 89	BROWARD (FC)		14	67	533	65	679	33	712
03 05 07	CANAVERAL (FC)		2	28	259	20	309	19	328
03 00 93	CENTRAL GEORGIA		2	15	227	10	254	36	290
03 01 67	CENTRAL NORTH CAROLINA (NCC)		3	26	220	32	281	51	332
03 03 81	CENTRAL SAVANNAH RIVER (SCC)			9	148	13	170	21	191
03 09 09	CENTRAL VIRGINIA (VC)		22	74	381	27	504	149	653
03 01 69	CHARLOTTE (NCC)		7	107	552	98	764	177	941
03 07 11	CHATTAHOOGA (TC)		4	67	257	29	357	62	419
03 03 83	COASTAL SOUTH CAROLINA (SCC)		15	49	256	31	351	48	399
03 03 85	COLUMBIA (SCC)		2	42	319	27	390	82	472
03 05 77	DAYTONA (FC)		4	36	168	15	223	4	227
03 07 13	EAST TENNESSEE (TC)		11	105	493	45	654	254	908
03 01 71	EASTERN NORTH CAROLINA (NCC)		31	165	1572	154	1922	498	2420
03 01 71 01	LOWER CAPE FEAR (NCC)			(10)	(70)	(9)	(89)	(3)	(92)
03 00 15	EVANSVILLE-OWENSBORO		1	24	244	20	289	112	401
03 00 15 01	PADUCAH			(6)	(49)	(6)	(61)	(27)	(88)
03 05 17	FLORIDA WEST COAST (FC)		73	349	1385	163	1970	211	2181
03 05 17 01	SARASOTA-BRADENTON (FC)		(40)	(146)	(200)	(32)	(418)	(4)	(422)
03 05 19	FORT WALTON (FC)			12	196	4	212	8	220
03 05 21	GAINESVILLE (FC)		14	34	233	9	290	145	435
03 09 23	HAMPTON ROADS (VC)		3	60	701	29	793	205	998
03 00 25	HUNTSVILLE		3	78	1157	60	1298	98	1396
03 05 27	JACKSONVILLE (FC)			42	191	22	255	31	286
03 00 97	JAMAICA			8	94	20	122	12	134
03 00 29	LEXINGTON		4	17	234	10	265	61	326
03 00 31	LOUISVILLE		2	47	300	10	359	177	536
03 07 33	MEMPHIS (TC)			30	317	40	387	155	542
03 07 33 01	JACKSON (TC)			(5)	(50)		(55)	(22)	(77)
03 05 35	MIAMI (FC)		13	114	713	54	894	202	1096

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## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1987

## REGION 2

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
						A	S		
02 00 01	AKRON		4	56	391	32	483	98	581
02 00 21	ALLEGHENY MOUNTAIN		1	9	47	8	65	12	77
02 00 03	BALTIMORE		40	372	3279	207	3898	288	4186
02 00 03 01	ANNAPOLIS		(13)	(93)	(990)	(59)	(1155)	(65)	(1220)
02 00 05	CANTON			19	138	17	174	49	223
02 00 07	CENTRAL PENNSYLVANIA		11	58	289	7	365	368	733
02 00 09	CINCINNATI		9	65	640	47	761	137	898
02 00 11	CLEVELAND		27	180	1271	86	1564	335	1899
02 00 13	COLUMBUS		23	159	966	153	1301	469	1770
02 00 13 05	ZANESVILLE				(6)	(17)	(1)	(24)	(24)
02 00 15	DAYTON		14	135	1153	95	1397	195	1592
02 00 17	DELAWARE BAY		5	51	356	26	438	79	517
02 00 47	EASTERN SHORE		4	22	108	15	149	12	161
02 00 23	ERIE		4	46	136	11	197	50	247
02 00 25	JOHNSTOWN		1	24	126	8	159	38	197
02 00 27	LEHIGH VALLEY		31	145	1074	112	1362	267	1629
02 00 29	LIMA		3	16	79	11	109	87	196
02 00 31	NORTH CENTRAL OHIO		1	13	54	14	82	7	89
02 01 49	NORTHERN VIRGINIA (NCAC)		58	479	4389	314	5240	315	5555
02 00 33	OHIO VALLEY			7	61	5	73	9	82
02 00 35	PHILADELPHIA		116	617	4296	352	5381	874	6255
02 00 37	PITTSBURGH	1	71	378	1920	118	2488	578	3066
02 00 37 01	UPPER MONONGAHELA		(2)	(12)	(99)	(4)	(117)	(65)	(182)
02 00 39	SHARON		2	25	141	10	178	97	275
02 00 41	SOUTHERN NEW JERSEY		3	19	140	9	171	17	188
02 00 43	SUSQUEHANNA		8	65	479	80	632	113	745
02 01 19	WASHINGTON (NCAC)		150	698	4693	372	5913	692	6605
02 01 19 01	WESTERN MARYLAND (NCAC)		(1)	(10)	(145)	(24)	(180)	(12)	(192)
02 00 45	WEST VIRGINIA		1	13	135	9	158	61	219
	<u>REGION 2 TOTALS</u>	1	587	3671	26361	2118	32738	5247	37985
	<u>COUNCIL TOTALS</u>								
02 01	NATL CAPITOL AREA COUNCIL NCAC		208	1177	9082	686	11153	1007	12160

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1987

## REGION 3

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE	S	SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL			
03 00 01	ALABAMA		7	166	844	44	1061	324		1385
03 00 01 01	MONTGOMERY		(5)	(27)	(259)	(16)	(307)	(200)	(507)	
03 00 03	ATLANTA		36	277	2171	257	2741	746		3487
03 00 03 05	ATHENS			(10)	(40)	(2)	(52)	(9)	(61)	
03 00 03 01	ROME		(1)	(13)	(57)	(8)	(79)	(14)	(93)	
03 00 05	BATON ROUGE		2	21	280	10	313	89		402
03 05 89	BROWARD (FC)		14	67	533	65	679	33		712
03 05 07	CANAVERAL (FC)		2	28	259	20	309	19		328
03 00 93	CENTRAL GEORGIA		2	15	227	10	254	36		290
03 01 67	CENTRAL NORTH CAROLINA (NCC)		3	26	220	32	281	51		332
03 03 81	CENTRAL SAVANNAH RIVER (SCC)			9	148	13	170	21		191
03 09 09	CENTRAL VIRGINIA (VC)		22	74	381	27	504	149		653
03 01 69	CHARLOTTE (NCC)		7	107	552	98	764	177		941
03 07 11	CHATTANOOGA (TC)		4	67	257	29	357	62		419
03 03 83	COASTAL SOUTH CAROLINA (SCC)		15	49	256	31	351	48		399
03 03 85	COLUMBIA (SCC)		2	42	319	27	390	82		472
03 05 77	DAYTONA (FC)		4	36	168	15	223	4		227
03 07 13	EAST TENNESSEE (TC)		11	105	493	45	654	254		908
03 01 71	EASTERN NORTH CAROLINA (NCC)		31	165	1572	154	1922	498		2420
03 01 71 01	LOWER CAPE FEAR (NCC)			(10)	(70)	(9)	(89)	(3)	(92)	
03 00 15	EVANSVILLE-OWENSBORO		1	24	244	20	289	112		401
03 00 15 01	PADUCAH			(6)	(49)	(6)	(61)	(27)	(88)	
03 05 17	FLORIDA WEST COAST (FC)		73	349	1385	163	1970	211		2181
03 05 17 01	SARASOTA-BRADENTON (FC)		(40)	(146)	(200)	(32)	(418)	(4)	(422)	
03 05 19	FORT WALTON (FC)			12	196	4	212	8		220
03 05 21	GAINESVILLE (FC)		14	34	233	9	290	145		435
03 09 23	HAMPTON ROADS (VC)		3	60	701	29	793	205		998
03 00 25	HUNTSVILLE		3	78	1157	60	1298	98		1396
03 05 27	JACKSONVILLE (FC)			42	191	22	255	31		286
03 00 97	JAMAICA			8	94	20	122	12		134
03 00 29	LEXINGTON		4	17	234	10	265	61		326
03 00 31	LOUISVILLE		2	47	300	10	359	177		536
03 07 33	MEMPHIS (TC)			30	317	40	387	155		542
03 07 33 01	JACKSON (TC)			(5)	(50)		(55)	(22)	(77)	
03 05 35	MIAMI (FC)		13	114	713	54	894	202		1096

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## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1987

## REGION 3 (cont.)

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	HIGHER GRADE			SUBSECTION TOTAL	SECTION TOTAL
						A	SUBTOTAL	S		
03 07 37	MIDDLE TENNESSEE (TC)			30	91	6	127	4		131
03 00 39	MISSISSIPPI		2	30	355	19	406	174		580
03 00 39 01	NE MISSISSIPPI		(1)	(10)	(77)	(2)	(90)	(121)	(211)	
03 00 41	MOBILE			19	149	6	174	59		233
03 07 43	NASHVILLE (TC)		7	54	339	29	429	268		697
03 00 45	NEW ORLEANS		2	104	618	34	758	119		877
03 07 49	OAK RIDGE (TC)		4	28	144	5	181	11		192
03 05 51	ORLANDO (FC)		12	127	957	58	1154	120		1274
03 05 53	PALM BEACH (FC)		26	115	741	82	964	42		1006
03 05 57	PENSACOLA (FC)			13	102	11	126	5		131
03 03 87	PIEDMONT (SCC)		6	49	402	23	480	182		662
03 09 59	RICHMOND (VC)		5	55	479	39	578	25		603
03 00 61	SAVANNAH		1	9	67	4	81	9		90
03 05 95	SO BREVARD INDIAN RIVER (FC)		11	88	739	25	863	99		962
03 05 55	TALLAHASSEE AREA (FC)		5	21	190	7	223	55		278
03 07 91	TRI CITIES (TC)		2	23	199	26	250	20		270
03 09 65	VIRGINIA MOUNTAIN (VC)		10	94	313	33	450	362		812
03 01 73	WESTERN NORTH CAROLINA (NCC)		8	42	136	11	197	7		204
03 01 75	WINSTON-SALEM (NCC)		2	25	134	25	186	13		199
	<u>REGION 3 TOTALS</u>		378	2995	20600	1761	25734	5584		31318
	<u>COUNCIL TOTALS</u>									
03 05	FLORIDA COUNCIL (FC)		174	1046	6407	535	8162	974		9136
03 01	NO CAROLINA COUNCIL (NCC)		51	365	2614	320	3350	746		4096
03 03	SO CAROLINA COUNCIL (SCC)		23	149	1125	94	1391	333		1724
03 07	TENNESSEE COUNCIL (TC)		28	337	1840	180	2385	774		3159
03 09	VIRGINIA COUNCIL (VC)		40	283	1874	128	2325	741		3066

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1987

## REGION 4

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL	S		
04 00 01	ARROWHEAD			21	146	11	178	78		256
04 00 45	CALUMET		2	40	361	63	466	139		605
04 00 03	CEDAR RAPIDS		5	58	354	31	448	88		536
04 00 05	CENTRAL ILLINOIS	1	44	95	478	29	647	494		1141
04 00 07	CENTRAL INDIANA		24	160	1144	89	1417	527		1944
04 00 07 01	BLOOMINGTON		(3)	(19)	(95)	(11)	(128)	(8)	(136)	
04 00 09	CENTRAL IOWA		5	47	261	12	325	366		691
04 00 11	CHICAGO		65	481	4801	493	5840	784		6624
04 00 11 03	FOX VALLEY		(14)	(132)	(1524)	(196)	(1866)	(112)	(1978)	
04 00 11 05	NORTHWEST		(9)	(169)	(1576)	(142)	(1896)	(136)	(2032)	
04 00 13	FORT WAYNE		4	52	366	29	451	106		557
04 00 15	ILLINOIS VALLEY			22	142	9	173	45		218
04 00 17	IOWA-ILLINOIS		1	35	193	16	245	26		271
04 00 19	MADISON		9	60	393	25	487	172		659
04 00 33	MICHIANA		4	23	270	30	327	120		447
04 00 21	MILWAUKEE		19	154	1300	92	1565	517		2082
04 00 47	MISSOURI SLOPE			3	62	2	67	12		79
04 00 23	NEBRASKA		2	80	472	96	650	196		846
04 00 25	NORTHEAST MICHIGAN		1	27	265	29	322	102		424
04 00 27	NORTHEASTERN WISCONSIN		1	31	377	30	439	243		682
04 00 27 01	UPPER PENINSULA			(11)	(118)	(8)	(137)	(217)	(354)	
04 00 49	RED RIVER VALLEY		1	17	161	6	185	240		425
04 00 29	ROCK RIVER VALLEY			17	246	19	282	50		332
04 00 31	SIOUXLAND		2	20	117	10	149	39		188
04 00 35	SOUTHEASTERN MICHIGAN		43	252	2586	209	3090	963		4053
04 00 37	SOUTHERN MINNESOTA		1	16	261	39	317	73		390
04 00 37 01	COULEE		(1)	(3)	(41)	(2)	(47)	(4)	(51)	
04 00 39	TOLEDO		3	46	295	42	386	132		518
04 00 41	TWIN CITIES		19	177	2423	167	2786	520		3306
04 00 41 01	RED RIVER VALLEY			(1)			(1)		(1)	
04 00 43	WEST MICHIGAN			55	474	55	584	70		654
04 00 43 01	KALAMAZOO-BATTLE CREEK			(15)	(125)	(14)	(154)	(46)	(200)	
	<u>REGION 4 TOTALS</u>	1	255	1989	17948	1633	21826	6102		27928

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1987

## REGION 5

GEO CODE				SECTION/SUBSECTION					HIGHER GRADE		SUBSECTION	SECTION
R	C	S	SS	H	F	SM	M	A	SUBTOTAL	S	TOTAL	TOTAL
05	00	01			3	46	292	39	380	91		471
05	00	03			1	19	153	2	175	60		235
05	00	05			29	129	1804	116	2078	464		2542
05	00	07			1	22	189	24	236	65		301
05	00	09		1	32	310	3777	205	4325	226		4551
05	00	11			50	322	2759	153	3284	759		4043
05	00	11	01		(1)	(6)	(80)	(1)	(88)	(121)	(209)	
05	00	11	03		(3)	(30)	(333)	(10)	(376)	(199)	(575)	
05	00	13			4	47	333	12	396	162		558
05	00	15			6	92	1408	58	1564	193		1757
05	00	45			2	32	549	18	601	63		664
05	00	17			15	209	2175	155	2554	839		3393
05	00	17	01			(8)	(69)	(2)	(79)	(7)	(86)	
05	00	19			7	160	1020	152	1339	434		1773
05	00	19	01		(1)	(17)	(90)	(9)	(117)	(23)	(140)	
05	00	41			2	7	162	6	177	116		293
05	00	21			5	77	385	23	490	114		604
05	00	37			2	31	112	8	153	36		189
05	00	23				20	105	10	135	2		137
05	00	39				5	66	7	78			78
05	00	43			5	49	765	36	855	98		953
05	00	25			32	195	2054	91	2372	747		3119
05	00	25	01		(4)	(10)	(97)	(4)	(115)	(251)	(366)	
05	00	27			2	29	240	11	282	103		385
05	00	27	01			(2)	(37)		(39)	(5)	(44)	
05	00	29			3	16	125	9	153	115		268
05	00	31			7	84	440	43	574	179		753
05	00	35			3	55	334	16	408	40		448
<u>REGION 5 TOTALS</u>				1	211	1956	19247	1194	22609	4906		27515



## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1987

## REGION 6

GEO CODE				SECTION/SUBSECTION					HIGHER GRADE		SUBSECTION	SECTION
R	C	S	SS	H	F	SM	M	A	SUBTOTAL	S	TOTAL	TOTAL
06	00	03				1	7	42	1	51	1	52
06	00	05					14	229	28	271	30	301
06	00	05	01				(9)	(39)	(2)	(50)	(22)	(72)
06	00	01				22	111	1005	49	1187	134	1321
06	00	07				1	23	169	7	200	6	206
06	01	09				6	81	1000	66	1153	50	1203
06	01	11					17	273	21	311	7	318
06	00	65					5	46		51	3	54
06	01	13				12	145	1062	92	1311	135	1446
06	00	15					17	102	4	123	1	124
06	00	17				10	40	612	39	701	147	848
06	00	19					9	129	3	141	3	144
06	00	21				1	23	179	11	214	32	246
06	00	71				3	49	190	11	253	11	264
06	01	23				28	85	676	46	835	273	1108
06	00	25				1	24	133	8	166	94	260
06	00	73				3	28	178	11	220	62	282
06	03	67				60	261	2462	224	3007	453	3460
06	01	27				49	410	3570	275	4304	483	4787
06	00	29				46	293	2397	134	2870	418	3288
06	00	31				41	226	1734	128	2129	377	2506
06	00	31	01			(8)	(39)	(241)	(31)	(319)	(179)	(498)
06	00	33		1		4	33	204	11	253	99	352
06	00	35				9	118	1132	61	1320	366	1686
06	00	35	05			(2)	(14)	(169)	(14)	(199)	(55)	(254)
06	00	37				44	312	2554	179	3089	292	3381
06	01	39				25	258	1709	177	2169	211	2380
06	03	41				21	186	1452	172	1831	115	1946
06	03	41	01			(3)	(30)	(227)	(20)	(280)	(5)	(285)
06	01	43				24	123	879	75	1101	162	1263
06	01	45				21	86	560	40	707	235	942
06	03	69		5		200	850	9182	650	10887	761	11648
06	03	69	01			(16)	(50)	(355)	(21)	(442)	(103)	(545)
06	01	47				66	179	1148	102	1495	252	1747
06	00	49				34	275	2811	156	3276	380	3656

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1987

## REGION 6 (cont.)

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL	S		
06 01 51	SOUTH BAY HARBOR (LAC)		23	227	2309	146	2705	254		2959
06 00 53	SPOKANE		1	43	271	15	330	207		537
06 00 55	TUCSON		22	108	522	36	688	145		833
06 00 57	UTAH		11	70	763	101	945	342		1287
06 00 59	VANDENBERG		1	14	121	18	154	6		160
06 00 61	WENATCHEE		1	10	58	4	73	21		94
	<u>REGION 6 TOTALS</u>	6	791	4760	41863	3101	50521	6568		57089
	<u>COUNCIL TOTALS</u>									
06 01	LOS ANGELES COUNCIL (LAC)		254	1611	13186	1040	16091	2062		18153
06 03	SF BAY AREA COUNCIL (SFBAC)	5	281	1297	13096	1046	15725	1329		17054

## SECTION A

TABLE 7 - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1987

## REGION 7

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL	S		
07 03 33	CANADIAN ATLANTIC (ECC)		3	18	205	11	237	109		346
07 05 03	HAMILTON (CCC)		4	47	329	113	493	230		723
07 05 01	KINGSTON (CCC)		1	29	110	6	146	154		300
07 05 05	KITCHENER-WATERLOO (CCC)		3	30	243	54	330	134		464
07 05 07	LONDON (CCC)		1	21	182	63	267	95		362
07 03 09	MONTREAL (ECC)		29	165	1547	107	1848	592		2440
07 01 39	N SASKATCHEWAN (WCC)		3	8	129	11	151	135		286
07 03 35	NEW BRUNSWICK (ECC)			21	158	11	190	159		349
07 03 37	NEWFOUNDLAND-LABRADOR (ECC)			6	66	3	75	41		116
07 01 13	NORTHERN CANADA (WCC)			21	459	58	538	234		772
07 03 15	OTTAWA (ECC)		12	135	1500	126	1773	242		2015
07 05 41	PETERBOROUGH (CCC)		1	23	70	10	104	9		113
07 03 17	QUEBEC (ECC)			7	119	12	138	72		210
07 01 19	S SASKATCHEWAN(WCC)			16	103	13	132	48		180
07 03 21	SAINT MAURICE (ECC)			1	38	1	40	23		63
07 01 23	SOUTHERN ALBERTA (WCC)		3	20	441	54	518	156		674
07 05 25	TORONTO (CCC)		32	151	2011	550	2744	614		3358
07 01 27	VANCOUVER (WCC)		9	92	763	102	966	249		1215
07 01 29	VICTORIA (WCC)		2	26	117	19	164	89		253
07 01 31	WINNIPEG (WCC)		1	50	339	125	515	275		790
	<u>REGION 7 TOTALS</u>		104	887	8929	1449	11369	3660		15029
	<u>COUNCIL TOTALS</u>									
07 05	CENTRAL CANADA COUNCIL (CCC)		42	301	2945	796	4084	1236		5320
07 03	EASTERN CANADA COUNCIL (ECC)		44	353	3633	271	4301	1238		5539
07 01	WESTERN CANADA COUNCIL (WCC)		18	233	2351	382	2984	1186		4170

## SECTION A

TABLE 7-8A - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1987

## REGION 8

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL	S		
08 00 37	AUSTRIA		2	20	130	11	163	29		192
08 00 01	BENELUX		29	116	1002	83	1230	555		1785
08 00 25	DENMARK		2	22	229	27	280	35		315
08 00 47	EAST AFRICA			20	94	13	127	10		137
08 00 03	EGYPT		5	44	159	10	218	48		266
08 00 35	FINLAND		1	19	194	13	227	143		370
08 00 05	FRANCE		37	102	814	106	1059	47		1106
08 00 17	GERMANY (WEST)		33	159	1154	179	1525	216		1741
08 00 29	GREECE		2	17	254	26	299	137		436
08 00 51	HUNGARY		1	7	54		62			62
08 00 27	IRAN			7	103	18	128	124		252
08 00 09	ISRAEL		14	77	606	38	735	100		835
08 00 21	MIDDLE & SOUTH ITALY		10	34	349	34	427	76		503
08 00 39	NIGERIA			6	80	4	90	10		100
08 00 11	NORTH ITALY		12	43	627	93	775	195		970
08 00 13	NORWAY		2	32	226	24	284	10		294
08 00 33	POLAND		1	43	45	4	93	15		108
08 00 45	PORTUGAL			8	108	51	167	133		300
08 00 43	SAUDI ARABIA			54	509	56	619	34		653
08 00 43 03	JEDDAH			(8)	(97)	(14)	(119)	(9)	(128)	
08 00 43 01	JUBAIL			(2)	(15)	(2)	(19)		(19)	
08 00 41	SOUTH AFRICA		1	19	235	16	271	58		329
08 00 23	SPAIN		1	29	519	89	638	228		866
08 00 19	SWEDEN		13	56	449	42	560	79		639
08 00 07	SWITZERLAND		23	91	954	85	1153	264		1417
08 00 49	UNITED ARAB EMIRATES			3	24		27	1		28
08 00 15	UNITED KINGDOM & REP IRELAND	1	54	289	1951	174	2469	326		2795
08 00 31	YUGOSLAV			12	277	19	308	42		350
08 00 88	COUNTRIES OUTSIDE SECTIONS		3	87	692	66	848	197		1045
	<u>REGION 8 TOTALS</u>	1	246	1416	11838	1281	14782	3112		17894

## SECTION A

TABLE 7-8B - IEEE MEMBERSHIP IN REGION 8 NOT ASSIGNED TO SECTIONS, BY COUNTRY, BY GRADE  
DECEMBER 31, 1987 - 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>12/31/87</u> <u>TOTAL</u>	<u>12/31/86</u> <u>TOTAL</u>	<u>12/31/85</u> <u>TOTAL</u>
ALGERIA				5	1	1	7	9	14
ANGOLA (W.AFRICA)				2			2	1	
BAHREIN (ARABIAN GULF)			12	39	4	1	56	57	47
BATSUTOLAND				2			2		
BOTSWANA (S.AFRICA)				3	2		5	5	4
BULGARIA			3	3		1	7	5	4
CAMEROON (C.AFRICA)				2			2	4	2
CYPRUS			3	52	4	2	61	48	41
CZECHOSLOVAKIA			4	8	4	2	18	17	18
ETHIOPIA									1
GABON				1			1		
GERMANY EAST & E BERLIN				2			2	1	1
GHANA (W.AFRICA)				5	1	1	7	5	2
GIBRALTAR				1			1	2	1
HUNGARY								12	12
ICELAND				37	3		40	34	40
IRAQ			6	21	4	3	34	30	39
IVORY COAST (W.AFRICA)			1	4	1		6	5	4
JORDAN			7	53	2	23	85	87	72
KUWAIT			10	107	6	132	255	279	264
LEBANON				5		1	6	7	6
LIBERIA (W.AFRICA)			2	6			8	8	9
MALAWI (C.AFRICA)			1	3	1		5	3	4
MALTA, ISLE OF			1	13			14	14	14
MOROCCO			1	4	1		6	11	10
MUSCAT/OMAN/UNITED ARAB EMIRATES			11	104	11	1	127	158	141
QATAR (ARABIAN GULF)			6	35	7	1	49	45	35
RUMANIA			7	11		1	19	19	14
SENEGAL (W.AFRICA)				2			2	1	3
SIERRA LEONE (W.AFRICA)								1	1

(continued on next page)

SECTION A  
(cont.)

TABLE 7-8B - IEEE MEMBERSHIP IN REGION 8 NOT ASSIGNED TO SECTIONS, BY COUNTRY, BY GRADE  
DECEMBER 31, 1987 -- 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>12/31/87</u> <u>TOTAL</u>	<u>12/31/86</u> <u>TOTAL</u>	<u>12/31/85</u> <u>TOTAL</u>
SOUTHWEST AFRICA				1	1		2	1	
SP LIBYAN ARAB JAMAHIRIYA			1	12	2	1	16	24	28
SUDAN				14	3		17	22	26
SWAZILAND (S.AFRICA)				2			2	1	2
SYRIA				11	1	2	14	17	16
TUNISIA				6	1	1	8	7	7
TURKEY		1	7	78	6	20	112	93	80
USSR		2	3	4		1	10	10	11
YEMEN ARAB REPUBLIC				9		2	11	8	3
APO AND FPO			1	25			26	22	25
MEMBERS NOT ASSIGNED TO IEEE SECTIONS		3	87	692	66	197	1045	1073	1001
MEMBERS ASSIGNED TO IEEE SECTIONS		243	1329	11146	1215	2915	16849	15281	14067
<u>TOTAL, REGION 8</u>		246	1416	11838	1281	3112	17894	16354	15068

## SECTION A

TABLE 7-9A - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1987

## REGION 9

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL	S		
09 00 01	ARGENTINA		2	27	300	57	386	280		666
09 01 27	BAHIA (BC)			7	60	1	68	5		73
09 01 15	BRASILIA (BC)				38	6	44	3		47
09 00 03	CHILE			15	159	27	201	255		456
09 00 05	COLOMBIA			12	200	30	242	269		511
09 00 05 01	MEDELLIN			(4)	(16)	(1)	(21)	(1)	(22)	
09 05 33	COSTA RICA (CAPC)			6	42	2	50	10		60
09 00 29	ECUADOR			6	33	28	67	50		117
09 05 35	EL SALVADOR (CAPC)			8	68	11	87	150		237
09 05 37	GUATEMALA (CAPC)			4	90	5	99	54		153
09 05 39	HONDURAS (CAPC)				65	1	66	28		94
09 03 07	MEXICO (MC)		3	42	506	61	612	311		923
09 03 07 03	GUADALAJARA (MC)			(3)	(31)		(34)	(7)	(41)	
09 03 07 09	GUANAJUATO				(2)		(2)		(2)	
09 03 07 05	MORELOS (MC)			(3)	(38)	(6)	(47)	(5)	(52)	
09 03 31	MONTERREY (MC)			5	110	8	123	151		274
09 05 25	PANAMA (CAPC)			9	103	8	120	49		169
09 00 21	PERU		1	8	192	17	218	134		352
09 00 09	PUERTO RICO & CARIBBEAN		1	41	499	50	591	246		837
09 01 11	RIO DE JANEIRO (BC)		3	37	109	15	164	26		190
09 01 17	SAO PAULO (BC)		2	34	229	31	296	92		388
09 01 17 01	CAMPINAS (BC)			(5)	(28)	(2)	(35)	(7)	(42)	
09 00 19	VENEZUELAN			25	178	14	217	280		497
09 00 99	COUNTRIES OUTSIDE SECTIONS			3	51	10	64	15		79
	<u>REGION 9 TOTALS</u>		12	289	3032	382	3715	2408		6123
	<u>COUNCIL TOTALS</u>									
09 01	BRAZIL COUNCIL (BC)		5	78	436	53	572	126		698
09 05	CTRL AM PANAMA COUNCIL (CAPC)			27	368	27	422	291		713
09 03	MEXICAN COUNCIL (MC)		3	47	616	69	735	462		1197

## SECTION A

TABLE 7-9B - IEEE MEMBERSHIP IN REGION 9 NOT ASSIGNED TO SECTIONS, BY COUNTRY, BY GRADE  
DECEMBER 31, 1987 - 3 YEAR COMPARISON

COUNTRY	H	F	SM	M	A	S	12/31/87	12/31/86	12/31/85
							TOTAL	TOTAL	TOTAL
BELIZE				3			3	2	1
BOLIVIA				13	1	15	29	7	6
CAYMAN ISLANDS				2			2	2	2
GUYANA			1	6			7	5	5
PARAGUAY			1	4	2		7	7	7
SURINAM				2			2	2	3
URUGUAY			1	18	4		23	21	16
APO AND FPO				<u>3</u>	<u>3</u>		<u>6</u>	<u>6</u>	<u>9</u>
MEMBERS NOT ASSIGNED TO IEEE SECTIONS			3	51	10	15	79	52	49
MEMBERS ASSIGNED TO IEEE SECTIONS	12	286	2981	372	2393		6044	5340	4455
<u>TOTAL, REGION 9</u>	12	289	3032	382	2408		6123	5392	4504



## SECTION A

TABLE 7-10A - IEEE MEMBERSHIP BY REGION, SECTION, SUBSECTION AND COUNCIL, BY GRADE  
DECEMBER 31, 1987

## REGION 10

GEO CODE R C S SS	SECTION/SUBSECTION	H	F	SM	M	A	HIGHER GRADE		SUBSECTION TOTAL	SECTION TOTAL
							SUBTOTAL	S		
10 01 19	BANGALORE (IC)			37	211	22	270	206		476
10 00 51	BEIJING		2	116	170	7	295	2		297
10 01 21	BOMBAY (IC)		3	74	362	51	490	292		782
10 01 21 01	BARODA (IC)			(9)	(40)	(3)	(52)	(23)	(75)	
10 01 37	CALCUTTA (IC)		1	36	142	10	189	65		254
10 01 23	DELHI (IC)	1	1	79	278	17	376	236		612
10 01 23 03	UTTAR PRADESH (IC)			(4)	(43)	(3)	(50)	(79)	(129)	
10 00 07	HONG KONG		1	29	1335	93	1458	217		1675
10 01 49	HYDERABAD (IC)			19	163	9	191	177		368
10 00 41	KARACHI			2	110	9	121	23		144
10 01 45	KERALA (IC)			16	244	10	270	246		516
10 01 55	KHARAGPUR (IC)			10	27	2	39	7		46
10 00 17	KOREA		3	20	541	45	609	553		1162
10 01 33	MADRAS (IC)		1	58	332	19	410	868		1278
10 00 35	MALAYSIA			2	285	15	302	32		334
10 05 09	NEW SOUTH WALES (AUSC)		6	64	826	45	941	117		1058
10 03 01	NEW ZEALAND NORTH (NZC)			7	101	12	120	25		145
10 03 39	NEW ZEALAND SOUTH (NZC)		1	11	134	5	151	63		214
10 00 03	PAKISTAN			26	136	10	172	19		191
10 05 53	QUEENSLAND (AUSC)		1	9	242	28	280	59		339
10 00 15	REPUBLIC OF THE PHILIPPINES			5	83	15	103	9		112
10 00 25	SINGAPORE			19	1056	93	1168	629		1797
10 05 57	SOUTH AUSTRALIA (AUSC)			11	125	5	141	13		154
10 00 11	TAIPEI			14	423	62	499	249		748
10 00 29	THAILAND			12	101	9	122	45		167
10 00 13	TOKYO	1	160	348	4049	243	4801	174		4975
10 05 43	VICTORIAN (AUSC)		1	33	629	34	697	60		757
10 05 47	WESTERN AUSTRALIA (AUSC)			10	168	30	208	46		254
10 00 99	COUNTRIES OUTSIDE SECTIONS			16	253	29	298	16		314
	<u>REGION 10 TOTALS</u>	2	181	1083	12526	929	14721	4448		19169
	<u>COUNCIL TOTALS</u>									
10 05	AUSTRALIAN COUNCIL (AUSC)		8	127	1990	142	2267	295		2562
10 01	INDIA COUNCIL (IC)	1	6	329	1759	140	2235	2097		4332
10 03	NEW ZEALAND COUNCIL (NZC)		1	18	235	17	271	88		359

## SECTION A

TABLE 7-10B - IEEE MEMBERSHIP IN REGION 10 NOT ASSIGNED TO SECTIONS, BY COUNTRY, BY GRADE  
 DECEMBER 31, 1987 - 3 YEAR COMPARISON

COUNTRY	H	F	SM	M	A	S	12/31/87	12/31/86	12/31/85
							TOTAL	TOTAL	TOTAL
BANGLADESH			4	14	2		20	21	17
BORNEO/KALAMNTN/BRUNEI/SABAH/SARAWK			2	31	3		36	23	18
BURMA				1	1		2	5	3
FIJI ISLANDS				12	1		13	15	13
GILBERT ISLANDS				1			1	1	1
GUAM			1	13	2		16	15	12
INDIA				1			1	1	
INDONESIA			1	68	12	11	92	98	87
MALDIVES								2	2
MAURITIUS				7	2		9	9	6
NFPAL			2	4			6	13	6
SAIPAN/MARIANA ISLANDS				2			2	3	2
SEYCHELLES				1			1	1	
SOLOMON ISLANDS				2			2	1	
SRI LANKA (CEYLON)			2	30	3	2	37	31	39
VIETNAM, NORTH & SOUTH			1				1	1	1
APO AND FPO			<u>3</u>	<u>66</u>	<u>3</u>	<u>3</u>	<u>75</u>	<u>52</u>	<u>49</u>
MEMBERS NOT ASSIGNED TO IEEE SECTIONS			16	253	29	16	314	292	256
MEMBERS ASSIGNED TO IEEE SECTIONS	181	1067	12273	900	4432		18855	17035	15640
<u>TOTAL, REGION 10</u>	181	1083	12526	929	4448		19169	17327	15896

SECTION BTABLE 1-IEEE STUDENT BRANCHES AND STUDENT BRANCH MEMBERSHIP  
DECEMBER 31, 1987

<u>REGION 1</u>		
<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
BINGHAMTON	*BROOME COMMUNITY COLLEGE	8
	NEW YORK STATE UNIV OF-BINGHAMTON (C)	47
BOSTON	BOSTON UNIV (C,EMB)	217
	*FRANKLIN INST OF BOSTON	31
	HARVARD UNIV	58
	LOWELL UNIV OF (C)	166
	MASSACHUSETTS INST OF TECHNOLOGY	314
	MERRIMACK COLLEGE	15
	NORTHEASTERN UNIV	335
	TUFTS UNIV	110
	*WENTWORTH INST OF TECHNOLOGY	42
BUFFALO	NEW YORK STATE UNIV OF COLLEGE-BUFFALO	41
	NEW YORK STATE UNIV OF-BUFFALO (C)	323
	*SUNY-ALFRED STATE COLLEGE	41
CONNECTICUT	*BRIDGEPORT ENGINEERING INST	11
	BRIDGEPORT UNIV OF	26
	CONNECTICUT UNIV OF	55
	*GREATER NEW HAVEN STATE TECH COLLEGE	10
	*HARTFORD STATE TECHNICAL COLLEGE	45
	HARTFORD UNIV OF	46
	NEW HAVEN UNIV OF	62
	TRINITY COLLEGE	6
	U S COAST GUARD ACADEMY	51
	*WARD TECHNICAL COLLEGE	31
	*WATERBURY STATE TECHNICAL COLLEGE	27
YALE UNIVERSITY	44	
ITHACA	CORNELL UNIV	248
LONG ISLAND	HOFSTRA UNIV	31
	NEW YORK INST OF TECHNOLOGY-OLD WESTBURY	1
	*NEW YORK STATE UNIV OF-FARMINGDALE	12
	NEW YORK STATE UNIV OF-STONY BROOK	99
	POLYTECHNIC INST OF NEW YORK L I CENTER	52
MAINE	MAINE UNIV OF	88
MID HUDSON	NEW YORK STATE UNIV OF NEW PALTZ	25
	*DUTCHESS COMMUNITY COLLEGE	11
	U S MILITARY ACADEMY (C)	20
MOHAWK VALLEY	CLARKSON UNIV	271
	*NEW YORK A AND T COLLEGE-CANTON	24
	NEW YORK STATE UNIV-UTICA	44
NEW HAMPSHIRE	DARTMOUTH COLLEGE-THAYER SCHOOL OF ENG	10
	*HESSER COLLEGE	1
	*NEW HAMPSHIRE TECHNICAL INST	6
	NEW HAMPSHIRE UNIV OF	84
NEW JERSEY COAST	MONMOUTH COLLEGE	36
	*UNION TECHNICAL INST	51
NEW YORK	*AERONAUTICS COLLEGE OF (C)	10
	*BRAMSON ORT TECHNICAL INST	1
	*BRONX COMMUNITY COLLEGE-DAY DIVISION	8
	COLUMBIA UNIV(C)	189
	COOPER UNION	82
	MANHATTAN COLLEGE	115

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

SECTION BREGION 1 (cont.)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>	
NEW YORK (cont.)	NEW YORK CITY COLLEGE OF (COM,MTT)	266	
	*NEW YORK CITY TECHNICAL COLLEGE	26	
	NEW YORK INST OF TECHNOLOGY	88	
	NEW YORK STATE UNIV OF-MARITIME COLLEGE	33	
	POLYTECHNIC UNIVERSITY (C)	276	
	PRATT INST	73	
	QUEENS COLLEGE-NEW YORK	7	
	*QUEENSBOROUGH COMMUNITY COLLEGE(C)	37	
	STATEN ISLAND COLLEGE OF-ST GEORGE CAMPUS	20	
	*STATEN ISLAND COLLEGE OF-SUNNYSIDE CAMPUS	22	
	*TECHNICAL CAREER INSTS (C)	46	
	*WESTCHESTER COMMUNITY COLLEGE	29	
	NORTH JERSEY	FAIRLEIGH DICKINSON UNIV-DAY DIVISION	58
		*HUDSON COUNTY COMMUNITY COLLEGE	25
*MORRIS COUNTY COLLEGE OF		11	
NEW JERSEY INST OF TECHNOLOGY		211	
STEVENS INST OF TECHNOLOGY		121	
*UNION COUNTY COLLEGE	23		
PRINCETON	*DEVRY TECHNICAL INSTITUTE-WOODBRIDGE	70	
	*MIDDLESEX COUNTY COLLEGE	26	
	PRINCETON UNIV	70	
	RUTGERS UNIV (EMB)	268	
	TRENTON STATE COLLEGE	74	
PROVIDENCE	BROWN UNIV	34	
	RHODE ISLAND UNIV OF	109	
	ROGER WILLIAMS COLLEGE	28	
	SOUTHEASTERN MASSACHUSETTS UNIV (C)	34	
ROCHESTER	ROCHESTER INST OF TECH-BRANCH A (C)	188	
	ROCHESTER INST OF TECH-BRANCH B (C)	2	
	ROCHESTER UNIV OF	50	
SCHENECTADY	*HUDSON VALLEY COMMUNITY COLLEGE	5	
	RENSSELAER POLYTECHNIC INST (C,P)	180	
	UNION COLLEGE	40	
SPRINGFIELD	MASSACHUSETTS UNIV OF (C)	205	
	WESTERN NEW ENGLAND COLLEGE	60	
SYRACUSE	SYRACUSE UNIV (C,EMB)	154	
VERMONT	*CHAMPLAIN COLLEGE	11	
	NORWICH UNIV (C)	53	
	*VERMONT TECHNICAL COLLEGE	3	
	VERMONT UNIV OF	72	
WORCESTER COUNTY	CENTRAL NEW ENGLAND COLLEGE	10	
	WORCESTER POLYTECHNIC INST	142	

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

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

SECTION BREGION 2

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
AKRON	AKRON UNIV OF (C)	110
BALTIMORE	*ANNE ARUNDEL COMMUNITY COLLEGE	7
	JOHNS HOPKINS UNIV	133
	LOYOLA COLLEGE	7
	U S NAVAL ACADEMY	2
CANTON	*KENT STATE UNIV-TUSCARAWAS	10
CENTRAL PENNSYLVANIA	BUCKNELL UNIV	48
	PENNSYLVANIA STATE UNIV (C)	435
CINCINNATI	CINCINNATI UNIV OF	134
CLEVELAND	CASE WESTERN RESERVE UNIV	200
	CLEVELAND STATE UNIV	109
COLUMBUS	*COLUMBUS TECHNICAL INSTITUTE	11
	*DEVRY INST OF TECHNOLOGY-COLUMBUS	116
	*FRANKLIN UNIV	13
	OHIO STATE UNIV (C)	270
	OHIO UNIV (C)	79
DAYTON	DAYTON UNIV OF	60
	*DAYTON UNIV OF-TECHNICAL INST	2
	*EDISON STATE COMMUNITY COLLEGE	17
	*SINCLAIR COLLEGE	15
	U S AIR FORCE INST OF TECHNOLOGY	18
	WRIGHT STATE UNIV (C)	71
DELAWARE BAY	DELAWARE UNIV OF	90
ERIE	GANNON UNIV	40
JOHNSTOWN	PITTSBURGH UNIV OF-JOHNSTOWN	36
LEHIGH VALLEY	LAFAYETTE COLLEGE	48
	LEHIGH UNIV	124
	WILKES COLLEGE	32
LIMA	OHIO NORTHERN UNIV	93
NORTHERN VIRGINIA	GEORGE MASON UNIV	157
PHILADELPHIA	DREXEL UNIV-DAY DIVISION (C)	307
	DREXEL UNIV-EVENING COLLEGE	63
	PENNSYLVANIA UNIV OF (C)	156
	SPRING GARDEN COLLEGE	18
	SWARTHMORE COLLEGE	13
	TEMPLE UNIV (EMB)	150
	VILLANOVA UNIV OF	86
	WIDENER UNIV	61
PITTSBURGH	CARNEGIE MELLON UNIV	235
	*PENNSYLVANIA STATE UNIV-MCKEESPORT	22
	PITTSBURGH UNIV OF	156
	STUBENVILLE COLLEGE OF	12
	WEST VIRGINIA UNIV (C)	57
SHARON	GROVE CITY COLLEGE	36
	YOUNGSTOWN STATE UNIV	59
SUSQUEHANNA	PENNSYLVANIA STATE UNIV-CAPITOL	84
	*PENNSYLVANIA STATE UNIV-YORK	5

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

SECTION B

REGION 2 (cont.)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
WASHINGTON	CAPITOL INST OF TECHNOLOGY	46
	CATHOLIC UNIV OF AMERICA	34
	*DISTRICT OF COLUMBIA UNIV OF THE	52
	GEORGE WASHINGTON UNIV (C)	197
	HOWARD UNIV	35
	MARYLAND UNIV OF	514
WEST VIRGINIA	WEST VIRGINIA INST OF TECHNOLOGY	63

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

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

SECTION BREGION 3

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
ALABAMA	ALABAMA UNIV OF (C)	61
	ALABAMA UNIV OF-BIRMINGHAM	55
	AUBURN UNIV (C,P)	185
	TUSKEGEE INST	53
ATLANTA	*DEKALB TECH	6
	*DEVRY INST OF TECHNOLOGY-ATLANTA	40
	GEORGIA INST OF TECHNOLOGY (C,EMB,P)	555
	SOUTHERN TECHNICAL INST	141
BATON ROUGE	LOUISIANA STATE UNIV-BATON ROUGE (C)	78
	SOUTHERN UNIV	31
CANAVERAL	FLORIDA INST OF TECHNOLOGY (C)	107
CENTRAL NORTH CAROLINA	*GUILFORD TECHNICAL COMMUNITY COLLEGE	15
	NORTH CAROLINA A AND T STATE UNIV	22
CENTRAL SAVANNAH RIVER	*AUGUSTA AREA TECHNICAL SCHOOL	8
CENTRAL VIRGINIA	VIRGINIA UNIV OF	150
CHARLOTTE	*CENTRAL PIEDMONT COMMUNITY COLLEGE	28
	*GASTON COLLEGE	12
	NORTH CAROLINA UNIV OF-CHARLOTTE	145
CHATTANOOGA	*CHATTANOOGA STATE TECHNICAL INST	19
	TENNESSEE UNIV OF-CHATTANOOGA	35
COASTAL SOUTH CAROLINA	CITADEL THE	27
	*FLORENCE-DARLINGTON TECHNICAL COLLEGE	1
	*TRIDENT TECHNICAL COLLEGE	7
COLUMBIA	SOUTH CAROLINA UNIV OF	103
EAST TENNESSEE	*STATE TECHNICAL INSTITUTE KNOXVILLE	7
	TENNESSEE UNIV OF (C)	278
EASTERN NORTH CAROLINA	CHERRY POINT MARINE CORPS-AIR STATION-SIU	11
	DUKE UNIV	104
	*FAYETTEVILLE TECHNICAL INST	14
	NORTH CAROLINA STATE UNIV (C,P)	313
	NORTH CAROLINA UNIV OF-CHAPEL HILL	35
*WAKE TECHNICAL COLLEGE	17	
EVANSVILLE-OWENSBORO	EVANSVILLE UNIV OF	43
	MURRAY STATE UNIV	28
	SOUTHERN INDIANA UNIV OF	35
FLORIDA WEST COAST	SOUTH FLORIDA UNIV OF (C)	201
GAINESVILLE	FLORIDA UNIV OF (C)	155
HAMPTON ROADS	HAMPTON INSTITUTE	10
	NORFOLK STATE UNIV	31
	OLD DOMINION UNIV (C)	162
HUNTSVILLE	ALABAMA UNIV OF-HUNTSVILLE	73
LEXINGTON	KENTUCKY UNIV OF	65
LOUISVILLE	LOUISVILLE UNIV OF	157
	WESTERN KENTUCKY UNIV	20
MEMPHIS	CHRISTIAN BROTHERS COLLEGE	17
	MEMPHIS STATE UNIV (C)	76
	*STATE TECHNICAL INST-MEMPHIS	9
	TENNESSEE UNIV OF-MARTIN	14
MIAMI	FLORIDA INTERNATIONAL UNIV	98
	MIAMI UNIV OF (C)	92

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

SECTION B

REGION 3 (cont.)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
MISSISSIPPI	MISSISSIPPI STATE UNIV (EMB,P)	153
	MISSISSIPPI UNIV OF	21
	SOUTHERN MISSISSIPPI UNIV OF	31
MOBILE	SOUTH ALABAMA UNIV OF	64
NASHVILLE	TENNESSEE STATE UNIV	35
	TENNESSEE TECHNOLOGICAL UNIV (C)	110
	VANDERBILT UNIV	133
NEW ORLEANS	NEW ORLEANS UNIV OF	41
	TULANE UNIV (C)	64
ORLANDO	CENTRAL FLORIDA UNIV OF (C)	136
PALM BEACH	FLORIDA ATLANTIC UNIV	54
PIEDMONT	CLEMSON UNIV (C)	180
SAVANNAH	GEORGIA SOUTHERN COLLEGE	14
	SAVANNAH STATE COLLEGE	8
TALLAHASSEE AREA	FLORIDA A AND M UNIV	9
	FLORIDA STATE UNIV	49
TRI-CITIES	*TRI-CITIES SECTION BRANCH (C)	4
VIRGINIA MOUNTAIN	VIRGINIA MILITARY INST	40
	VIRGINIA POLYTECHNIC INST (C)	368
	*VIRGINIA WESTERN COMMUNITY COLLEGE	5

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CS-CONTROL SYSTEMS, ED-ELECTRON DEVICES, EMB-ENGINEERING IN  
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MEASUREMENT, MTT-MICROWAVE, THEORY AND TECHNIQUES,  
PE-POWER ENGINEERING.



SECTION BREGION 4

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
ARROWHEAD	MINNESOTA UNIV OF-DULUTH (C)	76
CALUMET	PURDUE UNIV-CALUMET	42
	*VALPARAISO TECHNICAL INST	36
	VALPARAISO UNIV	68
CEDAR RAPIDS	IOWA UNIV OF	64
	*NORTHERN IOWA UNIV OF	18
CENTRAL ILLINOIS	ILLINOIS UNIV OF-URBANA/CHAMPAIGN (C)	501
CENTRAL INDIANA	PURDUE UNIV-INDIANAPOLIS	76
	PURDUE UNIV-W LAFAYETTE (C)	340
	ROSE-HULMAN INST OF TECHNOLOGY	80
CENTRAL IOWA	IOWA STATE UNIV (C)	403
CHICAGO	DEPAUL UNIV	14
	DEVRY INST OF TECHNOLOGY-CHICAGO	197
	*DEVRY INST OF TECHNOLOGY-LOMBARD	49
	ILLINOIS INST OF TECHNOLOGY (C)	150
	ILLINOIS UNIV OF-CHICAGO (EMB)	155
	NORTHWESTERN UNIV (C)	76
FORT WAYNE	INDIANA INST OF TECHNOLOGY	10
	PURDUE UNIV-FORT WAYNE	70
	TRI-STATE UNIV (C)	13
ILLINOIS VALLEY	BRADLEY UNIV	70
MADISON	WISCONSIN UNIV OF-MADISON (C)	169
	WISCONSIN UNIV OF-PLATTEVILLE	9
MICHIANA	NOTRE DAME UNIV OF	114
MILWAUKEE	MARQUETTE UNIV	265
	MILWAUKEE SCHOOL OF ENGINEERING	176
	*WAUKESHA COUNTY TECHNICAL INST	12
	WISCONSIN UNIV OF-MILWAUKEE (C)	96
	WISCONSIN UNIV OF-PARKSIDE	6
NEBRASKA	*GATEWAY ELECTRONICS INST (C)	14
	NEBRASKA UNIV OF-LINCOLN	120
	*NEBRASKA UNIV OF-OMAHA	51
NORTHEAST MICHIGAN	GMI ENGINEERING AND MANAGEMENT INST	126
	SAGINAW VALLEY STATE COLLEGE	34
NORTHEASTERN WISCONSIN	*LAKE SUPERIOR STATE COLLEGE	23
	MICHIGAN TECHNOLOGICAL UNIV (C,P)	229
ROCK RIVER VALLEY	NORTHERN ILLINOIS UNIV	54
SIOUXLAND	SOUTH DAKOTA STATE UNIV	36
SOUTHEASTERN MICHIGAN	DETROIT UNIV OF (C)	32
	LAWRENCE INST OF TECHNOLOGY (C)	127
	MICHIGAN STATE UNIV	147
	MICHIGAN UNIV OF DEARBORN	39
	MICHIGAN UNIV OF-ANN ARBOR	377
	OAKLAND UNIV	56
	*ST CLAIR COLLEGE OF TECH	23
	WAYNE STATE UNIV (C)	81
	WINDSOR UNIV OF	80
SOUTHERN MINNESOTA	MANKATO STATE UNIV	67
	ST CLOUD STATE UNIV	57

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

SECTION B

REGION 4 (cont.)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
TOLEDO	TOLEDO UNIV OF	104
	*TOLEDO UNIV OF-COMMUNITY AND TECH COLLEGE	22
TWIN CITIES	MINNESOTA UNIV OF	383
	NORTH DAKOTA STATE UNIV (C,EMB)	211
	NORTH DAKOTA UNIV OF	58
	*WISCONSIN UNIV OF-STOUT (C)	26
WEST MICHIGAN	WESTERN MICHIGAN UNIV (C)	51

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SECTION BREGION 5

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
ARKANSAS	*ARKANSAS COLLEGE OF TECHNOLOGY	31
	*ARKANSAS STATE UNIV	26
	ARKANSAS UNIV OF-LITTLE ROCK	47
BEAUMONT	LAMAR UNIV	38
	MCNEESE STATE UNIV	19
CENTRAL TEXAS	ST MARY'S UNIV	29
	TEXAS UNIV OF-AUSTIN (C)	414
	TRINITY UNIV	13
CORPUS CHRISTI	*DEL MAR COLLEGE (C)	23
	TEXAS A AND I UNIV	48
DALLAS	DEVRY INST OF TECHNOLOGY -IRVING	49
	EAST TEXAS STATE UNIV (C)	14
	SOUTHERN METHODIST UNIV	75
DENVER	COLORADO SCHOOL OF MINES	40
	COLORADO STATE UNIV (C)	139
	COLORADO UNIV OF-BOULDER	182
	COLORADO UNIV OF-DENVER	98
	DENVER UNIV OF	22
	METROPOLITAN STATE COLLEGE	69
	SOUTH DAKOTA SCHOOL OF MINES AND TECH	133
WYOMING UNIV OF	94	
EL PASO	NEW MEXICO STATE UNIV	105
	TEXAS UNIV OF-EL PASO	67
FORT WORTH	TEXAS CHRISTIAN UNIV (C)	10
	TEXAS UNIV OF-ARLINGTON (C)	163
HOUSTON	HOUSTON UNIV OF-CLEAR LAKE	33
	HOUSTON UNIV OF-COLLEGE OF ENG	196
	HOUSTON UNIV OF-COLLEGE OF TECH	40
	PRAIRIE VIEW A AND M UNIV	9
	RICE UNIV (C)	79
	TEXAS A AND M UNIV (C,IA,EMB)	427
	TEXAS A AND M UNIV-ENG TECHNOLOGY	113
KANSAS CITY	CENTRAL MISSOURI STATE UNIV	17
	*DEVRY INST OF TECHNOLOGY-KANSAS CITY	19
	KANSAS STATE UNIV	188
	KANSAS UNIV OF	109
	MISSOURI UNIV OF-KANSAS CITY	67
SOUTHWEST MISSOURI STATE COLLEGE	11	
LAFAYETTE	SOUTHWESTERN LOUISIANA UNIV OF (C)	125
OKLAHOMA CITY	OKLAHOMA UNIV OF	105
OZARK	ARKANSAS UNIV OF	41
PIKES PEAK	COLORADO TECHNICAL COLLEGE	17
	COLORADO UNIV OF-COLORADO SPRINGS	51
	SOUTHERN COLORADO UNIV OF	17
	U S AIR FORCE ACADEMY	7
SAINT LOUIS	MISSOURI UNIV OF-COLUMBIA (C)	164
	MISSOURI UNIV OF-ROLLA (C)	366
	PARKS COLLEGE OF ST LOUIS UNIV	25
	SOUTHERN ILLINOIS UNIV	113
	SOUTHERN ILLINOIS UNIV-EDWARDSVILLE	36
WASHINGTON UNIV	109	

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SECTION B

REGION 5 (cont.)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
SHREVEPORT	LETOURNEAU COLLEGE	13
	LOUISIANA TECHNOLOGICAL UNIV	101
	NORTHWESTERN STATE UNIV OF LOUISIANA	7
SOUTH PLAINS	TEXAS TECHNOLOGICAL UNIV	130
TULSA	*OKLAHOMA COLLEGE OF BUSINESS AND TECH	15
	OKLAHOMA STATE UNIV (C)	76
	OKLAHOMA STATE UNIV-BRANCH B	25
	TULSA UNIV OF	60
WICHITA	WICHITA STATE UNIV	24

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SECTION BREGION 6

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
ALASKA	ALASKA UNIV OF	29
ALBUQUERQUE	NEW MEXICO UNIV OF (C)	120
FOOTHILL	CALIFORNIA POLYTECHNIC STATE UNIV (C)	78
	DEVRY INST OF TECHNOLOGY-LOS ANGELES	70
	HARVEY MUDD COLLEGE	34
HAWAII	HAWAII UNIV OF	133
IDAHO	IDAHO UNIV OF	61
LAS VEGAS	NEVADA UNIV OF-LAS VEGAS	28
METRO LOS ANGELES	CALIFORNIA STATE UNIV-LOS ANGELES	153
	NORTHROP UNIV	28
	SOUTHERN CALIFORNIA UNIV OF	323
MONTANA	MONTANA STATE UNIV	97
NORTHERN NEVADA	NEVADA UNIV OF-RENO	59
OAKLAND-EAST BAY	CALIFORNIA STATE UNIV-FRESNO	80
	CALIFORNIA UNIV OF-BERKELEY (C)	281
ORANGE COUNTY	CALIFORNIA STATE UNIV-FULLERTON	108
	CALIFORNIA UNIV OF-IRVINE	217
PHOENIX	ARIZONA STATE UNIV (C)	273
	ARIZONA STATE UNIV-II-CET DEPT	26
	DEVRY INST OF TECHNOLOGY-PHOENIX	65
	NORTHERN ARIZONA UNIV	28
PORTLAND	*OREGON INST OF TECHNOLOGY	53
	OREGON STATE UNIV	145
	PORTLAND STATE UNIV	126
	PORTLAND UNIV (C)	37
RICHLAND	WALLA WALLA COLLEGE	70
	WASHINGTON STATE UNIV-RICHLAND	17
SACRAMENTO	CALIFORNIA STATE UNIV-CHICO	96
	CALIFORNIA STATE UNIV-SACRAMENTO (C)	143
	CALIFORNIA UNIV OF-DAVIS	123
	PACIFIC UNIV OF THE (C)	67
SAN DIEGO	CALIFORNIA UNIV OF-SAN DIEGO (C)	103
	SAN DIEGO STATE UNIV	161
SAN FERNANDO VALLEY	CALIFORNIA STATE UNIV-NORTHRIDGE	138
	*LOS ANGELES PIERCE COLLEGE	32
SAN FRANCISCO	*COGSWELL COLLEGE	17
	SAN FRANCISCO STATE UNIV	56
SANTA BARBARA	CALIFORNIA POLY STATE UNIV-SAN LUIS (P)	83
	CALIFORNIA UNIV OF-SANTA BARBARA (C)	202
SANTA CLARA VALLEY	*FOOTHILL COLLEGE	5
	SAN JOSE STATE UNIV	94
	SANTA CLARA UNIV OF (C)	120
	STANFORD UNIV (C)	364
	U S NAVAL POSTGRADUATE SCHOOL	47
SANTA MONICA BAY	CALIFORNIA UNIV OF-LOS ANGELES	259
	LOYOLA MARYMOUNT UNIV	16

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

SECTION B

REGION 6 (cont.)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
SEATTLE	SEATTLE PACIFIC UNIV	27
	SEATTLE UNIV	92
	WASHINGTON UNIV OF(C)	206
SOUTH BAY HARBOR	CALIFORNIA STATE UNIV-LONG BEACH (C)	168
SPOKANE	GONZAGA UNIV	40
	WASHINGTON STATE UNIV-PULLMAN (C)	124
TUCSON	ARIZONA UNIV OF	160
UTAH	BRIGHAM YOUNG UNIV	118
	BRIGHAM YOUNG UNIV-BRANCH B	53
	UTAH STATE UNIV	51
	UTAH UNIV OF (C)	105

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SECTION BREGION 7

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
CANADIAN ATLANTIC	NOVA SCOTIA TECHNICAL UNIV OF	111
HAMILTON	MCMASTER UNIV (C)	122
	*MOHAWK COLLEGE OF APPLIED A AND T	68
	*NIAGARA COLLEGE (C)	49
KINGSTON	QUEEN'S UNIV (C)	168
	ROYAL MILITARY COLLEGE OF CANADA	11
	*SAINT LAWRENCE COLLEGE OF APPLIED A AND T	0
KITCHENER-WATERLOO	*CONESTOGA COLLEGE OF APPLIED A AND T	45
	WATERLOO UNIV OF-STREAM A (C COM CS IT)	172
	WATERLOO UNIV OF-STREAM B	73
LONDON	*FANSHAWE COLLEGE	34
	*SAULT COLLEGE OF APPLIED A AND T	0
	WESTERN ONTARIO UNIV OF	45
MONTREAL	CONCORDIA UNIV (C)	203
	ECOLE POLYTECHNIQUE-UNIV OF MONTREAL	137
	MCGILL UNIV (C)	183
NEW BRUNSWICK	NEW BRUNSWICK UNIV OF	159
NEWFOUNDLAND-LABRADOR	NEWFOUNDLAND MEMORIAL UNIV OF	40
NORTHERN CANADA	ALBERTA UNIV OF (C)	226
	*WESTERRA INSTITUTE OF TECH	14
OTTAWA	*ALGONQUIN COLLEGE OF APPLIED A AND T	4
	CARLETON UNIV (C)	123
	OTTAWA UNIV OF	74
QUEBEC	COLLEGE MILITAIRES ROYAL-ST JEAN	0
	LAVAL UNIV	85
SAINT MAURICE	QUEBEC UNIV OF-TROIS RIVIERES	42
SASKATCHEWAN	REGINA UNIV OF	46
	*SASKATCHEWAN TECHNICAL INST	0
	SASKATCHEWAN UNIV OF	144
SOUTHERN ALBERTA	CALGARY UNIV OF	117
	*SOUTHERN ALBERTA INST OF TECHNOLOGY	25
TORONTO	CENTENNIAL COLLEGE OF APPLIED A AND T	30
	*DEVRY INST OF TECHNOLOGY-TORONTO	25
	*GEORGE BROWN COLLEGE OF APPLIED A & T	23
	*NORTHERN COLLEGE OF APPLIED A AND T	0
	*RADIO COLLEGE OF CANADA	13
	*RYERSON POLYTECHNIC INST	166
	*SENECA COLLEGE OF APPLIED A AND T	57
TORONTO UNIV OF	171	
VANCOUVER	*BRITISH COLUMBIA INST OF TECHNOLOGY	23
	BRITISH COLUMBIA UNIV OF (C)	163
	SIMON FRASER UNIV	41
VICTORIA	VICTORIA UNIV OF	103
WINNIPEG	LAKEHEAD U	56
	MANITOBA UNIV OF (C)	153
	*RED RIVER COMMUNITY COLLEGE	66

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SECTION BREGION 8

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
	KUWAIT UNIV	134
BENELUX	CATHOLIC U OF LOUVAIN	126
	DELFT UNIV OF TECHNOLOGY	93
	EINDHOVEN UNIV OF TECHNOLOGY (C COM)	66
	KATHOLIEKE UNIV TE LEUVEN	152
	LIEGE UNIV AV SART TILMAN	104
	TECHNISCHE HOGESCHOOL TWENTE	16
DENMARK	DENMARK SECTION STUDENT BRANCH	10
EGYPT	CAIRO UNIV OF	5
	MENOUFIA UNIVERSITY	21
FINLAND	HELSINKI UNIV OF TECHNOLOGY	60
	OULU UNIV OF	57
	TAMPERE UNIV OF TECHNOLOGY	23
FRANCE	ECOLE NATIONAL SUPERIORE TELECOM	10
	NATIONAL POLYTECHNIC DE GRENOBLE ENSIEG	15
GERMANY	MUNICH TECHNICAL UNIV OF	37
	STUTTGART UNIV OF	34
GERMANY (WEST)	FACHHOSCHSCHULE FURTWANGEN	17
GREECE	ARISTOTELIAN UNIV OF THESSALONIKA	28
	ATHENS NATIONAL TECHNICAL UNIV	70
ISRAEL	BEN GURION UNIV OF THE NEGEV	8
	ISRAEL INST OF TECHNOLOGY	38
	TEL-AVIV UNIV	19
MIDDLE AND SOUTH ITALY	FLORENCE UNIV OF	13
	ROME UNIV OF	62
MONTREAL	SCOLE DE TECHNOLOGIE SUPERIEURE	7
NORTH ITALY	BOLOGNA UNIV OF	8
	GENOVA UNIV OF	35
	PADOVA UNIV OF	52
	POLITECNICO DI MILANO	30
	POLITECNICO DI TORINO	20
	TRIESTE UNIV OF	39
PORTUGAL	*PORTUGAL SECTION STUDENT BRANCH	1
SPAIN	ESCUELA TEC SUP TELECOM-MADRID (C,EMB)	122
	ESCUELA TECH SUP ING TELECOMMUNICACION	87
SWEDEN	CHALMERS UNIV OF TECHNOLOGY	33
	LINKOPING UNIV	15
	LUND INST OF TECHNOLOGY	12
	ROYAL INST OF TECH	6
	UPPSALA UNIV OF	12
SWITZERLAND	ECOLE POLYTECHNIQUES FEDERALES	48
	SWISS FEDERAL INST OF TECHNOLOGY-ETH	210
UKRI	UKRI SECTION STUDENT BRANCH	94
YUGOSLAV	LJUBLJANA UNIV OF	19

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SECTION BREGION 9

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
ARGENTINA	BUENOS AIRES INST TECNOLOGICAL DE	28
	BUENOS AIRES UNIV DE (C)	122
	DEL SUR UNIV DE	35
	NACIONAL TECNOLOGICA UNIV REGIONAL	2
	TUCUMAN NACIONAL UNIV DE	17
BAHIA	BAHIA FEDERAL UNIV DA	4
CENTRAL AMERICA	COSTA RICA UNIV DE	10
	SAN CARLOS UNIV DE-GUATEMALA (C)	34
CHILE	ANTOFAGASTA UNIVERSIDAD DE	24
	CHILE CATOLICA UNIV DE	2
	SANTA MARIA UNIV TECNICA FEDERICO	42
	SANTIAGO UNIV DE	38
COLOMBIA	CAUCA UNIVERSIDAD DEL	10
	COLOMBIA AUTONOMA UNIV DE	14
	COLOMBIA UNIV NACIONAL DE	32
	COLOMBIA UNIV PILOTO DE	1
	DISTRITAL UNIV FRANCISCO JOSE CALDAS (C)	87
	ESCUELA COLOMBIANA DE INGENIERIA	5
	LOS ANDES UNIV DE (C,P)	23
	PONTIFICIA UNIV JAVERIANA	70
ECUADOR	*ESCUELA POLITECNICA NACIONAL-ECUADOR	34
EL SALVADOR	CENTROAMERICANA UNIV DE JOSE SIMEON CANAS	62
	*EL SALVADOR UNIV EVANGELICA DE	24
	EL SALVADOR UNIV POLITECNICA DE	60
MEXICO	ESCUELA SUPERIORE ING MECANICA Y ELECTRICA	24
	IBEROAMERICANA UNIVERSIDAD	69
	INST TEC DE ESTUDIOS SUP MONTERREY (C)	218
	INST TECNOLOGICO REGIONAL CIUDAD JUAREZ	10
	MEXICO NACIONAL AUTONOMA UNIV DE	10
PANAMA	PANAMA UNIV TECNOLOGICA OF	32
PERU	LIMA UNIV NACIONAL DE ING	78
PUERTO RICO & CARRIBEAN	PUERTO RICO UNIV OF	203
RIO DE JANEIRO	FEDERAL FLUMINENSE UNIV-ESCOLA ENG	0
SAO PAULO	ARMANDO ALVARES PENTEADO FOUNDATION-ENG	0
	ESCOLA POL UNIV DE SAO PAULO	5
	ESTADUAL DE CAMPINAS UNIVERSIDADE	9
	ESTADUAL PAULISTA JULIO DE MESQUITA	0
	MACKENZIE UNIV	57
	SAO CARLOS ESCOLA DE ENG OF	9
VENEZUELAN	CARABOBO UNIV DE	96
	IUPFAN-INST UNIV POLITEC FUERZAS ARMADAS	18
	VENEZUELA CENTRAL UNIV DE	97

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 PE-POWER ENGINEERING.

SECTION BREGION 10

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
	MORATUWA UNIV OF-SRI LANKA	0
BANGALORE	*GOGTE INST OF TECHNOLOGY	41
	INDIAN INST OF SCIENCE-BANGALORE(C)	38
BOMBAY	BIRLA INSTITUTE OF TECHNOLOGY	62
	INDIAN INST OF TECHNOLOGY-BOMBAY (C)	106
	M S UNIV OF BARODA	21
	REGIONAL ENG COLLEGE-WARANGAL	44
	VICTORIA JUBILEE TECHNICAL INST	30
CALCUTTA	INDIAN INST OF TECHNOLOGY-KHARAGPUR	42
	JADAVPUR UNIV	8
DELHI	BANARUS HINDU UNIV	60
	DELHI COLLEGE OF ENG (P)	52
	INDIAN INST OF TECH-DELHI	36
	INDIAN INST OF TECHNOLOGY-KANPUR	20
	KURUKSHETRA REGIONAL ENG COLLEGE	3
HONG KONG	CHINESE UNIV OF HONG KONG	25
	HONG KONG POLYTECHNIC (C)	91
	HONG KONG UNIV OF	99
HYDERABAD	SRI VENKATESWARA UNIV	56
	VISVESVARAYA REGIONAL COLLEGE OF ENG	70
KARACHI	NED UNIV OF ENG AND TECH	15
KERALA	COCHIN UNIV OF (C)	34
	N S S COLLEGE OF ENG	32
	REGIONAL ENGINEERING COLLEGE-CALICUT	36
	T K M COLLEGE OF ENG	75
	TRICHUR GOVERNMENT ENG COLLEGE (U CALICUT)	10
	TRIVANDRUM COLLEGE OF ENG (C)	51
KOREA	HANYANG UNIV (CAS, C, COM, ED)	77
	KOREA ADVANCED INST OF SCIENCE	199
	KOREA UNIV	17
	SEOUL NATIONAL UNIVERSITY	116
	YONSEI UNIV	31
MADRAS	ALAGAPPA CHETTIAR COLLEGE OF ENG AND TECH	44
	ANNA UNIV-COLLEGE OF ENG-MADRAS (C)	118
	ANNAMALAI UNIV	0
	COIMBATORE INST OF TECHNOLOGY	68
	GOVERNMENT COLLEGE OF ENG-SALEM	12
	INDIAN INST OF TECHNOLOGY-MADRAS (C)	42
	MADRAS INST OF TECHNOLOGY (C,IM)	33
	MANIPAL INST OF TECHNOLOGY	78
	MARUTHI COLLEGE OF ENG	0
	PONDICHERRY ENG COLLEGE	19
	PSG COLLEGE OF TECHNOLOGY (C)	177
	PSNA COLLEGE OF ENG AND TECH	55
	REG ENG COLLEGE-TIRUCH (C,COM,PE,EM,EMB)	180
	S K CRESCENT ENG COLLEGE	24
	SRI VENKATESWARA COLLEGE OF ENG-NAZARA	32
	THIAGARAJAR COLLEGE OF ENG-MADURAI	23
PAKISTAN	LAHORE UNIV OF ENG AND TECH	17
REPUB OF PHILLIPPINES	PHILIPPINES UNIV OF (C)	8

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

SECTION B

REGION 10 (cont.)

<u>SECTION</u>	<u>SCHOOL</u>	<u>MEMBERSHIP</u>
SINGAPORE	NANYANG TECHNOLOGICAL INSTITUTE	419
	SINGAPORE NATIONAL UNIV OF	149
THAILAND	CHULALONGKORN UNIVERSITY	34
TOKYO	OSAKA UNIV	30
	SHIZUOKA UNIV	24
	TOKYO UNIV OF	43

\* IEEE LESS THAN FOUR YEAR STUDENT BRANCH.

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

SECTION C

**TABLE I - 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**

Ed-25	Education
EM-14	Engineering Management
PC-26	Professional Communication
R-07	Reliability
SIT-30	Social Implications of Technology

**Division VII - Energy and Power Engineering**

PE-31	Power Engineering
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**Division VIII - Computer\***

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

ASSP-01	Acoustics, Speech, and Signal Processing
AES-10	Aerospace and Electronic Systems
GRS-29	Geoscience and Remote Sensing
OE-22	Oceanic Engineering
UFFC-20	Ultrasonics, Ferroelectrics and Frequency Control

**Division X - Systems and Control**

CS-23	Control Systems
EMB-18	Engineering in Medicine and Biology
IE-13	Industrial Electronics
IT-12	Information Theory
RA-24	Robotics and Automation Council
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, 1987; 3-YEAR COMPARISON, MEMBERS AND AFFILIATES

SOCIETY CODE	HM	F	SM	M	VOTING MEMBERS SUBTOTAL	A	HIGHER GRADE SUBTOTAL	S	1987 TOTAL MEMBERS	1987 TOTAL AFFIL.	1987 MEMBERS & AFFIL.	1986 MEMBERS & AFFIL.	1985 MEMBERS & AFFIL.
DIVISION I		728	1,991	19,461	22,180	1,351	23,531	5,349	28,880	106	28,986	28,164	26,358
CAS -04		302	771	9,235	10,308	678	10,986	2,843	13,829	8	13,837	13,307	13,383
CHMT-21		74	336	2,847	3,257	334	3,591	320	3,911	14	3,925	3,863	3,796
ED -15		377	913	7,312	8,602	415	9,017	1,225	10,242	3	10,245	9,962	9,916
LEO -36		182	417	3,674	4,273	288	4,561	1,754	6,315	82	6,397	6,322	4,388
DIVISION II		394	2,470	13,593	16,457	1,111	17,568	1,057	18,625	20	18,645	16,635	17,152
DEI -32		94	371	1,264	1,729	151	1,880	86	1,966	11	1,977	1,892	1,804
IA -34		190	1,636	7,806	9,632	531	10,163	390	10,553	2	10,555	10,718	11,355
IM -09		148	488	3,988	4,624	442	5,066	489	5,555	2	5,557	5,496	5,550
PEL -35		56	359	2,705	3,120	211	3,331	339	3,670	5	3,675		
DIVISION III		590	2,501	24,509	27,600	2,267	29,867	4,460	34,327	218	34,545	32,796	30,175
BT -02		80	278	1,594	1,952	334	2,286	247	2,533	3	2,536	2,679	2,808
CE -08		97	379	4,049	4,525	524	5,049	869	5,918	3	5,921	5,812	5,866
COMM-19		479	1,968	19,963	22,410	1,610	24,020	3,521	27,541	211	27,752	26,081	23,421
VT -06		80	332	1,818	2,230	193	2,423	207	2,630	2	2,632	2,564	2,529
DIVISION IV		723	2,405	15,174	18,302	1,182	19,484	2,536	22,020	313	22,333	20,616	19,349
AP -03		291	928	5,218	6,437	345	6,782	1,174	7,956	2	7,958	7,507	6,963
EMC -27		107	390	2,295	2,792	255	3,047	160	3,207	4	3,211	2,964	2,832
MAG -33		128	440	2,479	3,047	276	3,323	227	3,550	103	3,653	3,588	3,482
MTT -17		330	1,022	7,310	8,662	490	9,152	1,535	10,687	22	10,709	9,464	8,718
NPS -05		129	382	2,062	2,573	175	2,748	283	3,031	183	3,214	3,057	3,008
DIVISIONS V & VIII	1	622	3,173	53,979	57,775	5,157	62,932	11,796	74,728	15,495	90,223	89,978	89,578
COMP-16	1	622	3,173	53,979	57,775	5,157	62,932	11,796	74,728	15,495	90,223	89,978	89,578
DIVISION VI		408	1,931	12,492	14,831	1,225	16,056	1,379	17,435	177	17,612	17,224	17,299
E -25		182	507	1,515	2,204	182	2,386	249	2,635	8	2,643	2,511	2,445
EM -14		114	790	6,372	7,276	508	7,784	685	8,469	87	8,556	8,418	8,550
PC -26		28	252	1,787	2,067	284	2,351	190	2,541	66	2,607	2,646	2,656
R -07		77	420	3,072	3,569	323	3,892	157	4,049	12	4,061	3,883	3,845
SIT -30		107	309	1,765	2,181	193	2,374	317	2,691	4	2,695	2,733	2,930
DIVISION VII		607	4,107	16,346	21,060	997	22,057	1,251	23,308	3	23,311	22,058	21,286
PE -31		607	4,107	16,346	21,060	997	22,057	1,251	23,308	3	23,311	22,058	21,286
DIVISION IX		627	2,100	17,523	20,250	1,318	21,568	4,904	26,472	109	26,581	25,283	23,118
AES -10		268	941	6,702	7,911	516	8,427	1,735	10,162	9	10,171	9,752	8,502
ASSP-01		288	883	9,820	10,991	655	11,646	2,997	14,643	8	14,651	13,651	12,553
GRS -29		70	245	1,558	1,873	156	2,029	282	2,311	71	2,382	2,243	2,130
OE -22		96	266	1,373	1,735	158	1,893	355	2,248	15	2,263	2,198	2,230
UFFC-20		88	265	1,519	1,872	124	1,996	180	2,176	7	2,183	2,333	2,352
DIVISION X		586	1,952	17,735	20,273	1,498	21,771	4,946	26,717	139	26,856	26,270	25,791
CS -23		211	691	6,770	7,672	467	8,139	1,843	9,982	18	10,000	9,819	9,820
EMB -18		136	489	4,488	5,113	453	5,566	1,608	7,174	61	7,235	7,006	7,026
IE -13		96	440	3,796	4,332	419	4,751	599	5,350	1	5,351	5,479	5,334
IT -12		240	446	3,253	3,939	245	4,184	959	5,143	10	5,153	5,066	4,960
SMC -28		133	382	2,864	3,379	267	3,646	783	4,429	51	4,480	4,220	4,269
TOTAL SOCIETY MEMBERS	1	2,808	14,098	125,217	142,124	10,358	152,482	23,794	176,276	16,453	192,729	185,941	179,466
TOTAL SOCIETY MEMBERSHIPS	1	6,507	26,016	212,598	245,122	18,356	263,478	41,655	305,133	16,586	321,719	309,270	300,285















## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1987

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 01										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
BERKSHIRE	142	80	22	8	5	2	2	0	0	0
BINGHAMTON	346	316	84	30	16	7	10	0	0	0
BOSTON (CNEC)	3595	3976	1756	834	318	144	172	3	0	3
BUFFALO	638	321	125	63	27	13	9	0	0	0
CONNECTICUT	1994	1355	506	236	104	48	41	1	0	0
ITHACA	145	111	94	44	24	6	9	0	0	0
LONG ISLAND (METSAC)	2233	1172	448	214	78	33	47	3	2	1
MAINE (CNEC)	297	149	66	24	10	2	7	0	0	0
MID-HUDSON	580	451	202	72	27	8	9	0	0	0
MOHAWK VALLEY	475	203	105	55	19	9	13	0	0	0
NEW HAMPSHIRE (CNEC)	632	664	202	106	48	20	14	0	0	0
NEW JERSEY COAST	1118	1013	483	190	56	29	21	3	1	0
NEW YORK (METSAC)	3291	2114	926	418	154	97	98	2	0	2
NORTH JERSEY (METSAC)	2692	1738	841	318	138	67	62	2	0	0
PRINCETON (METSAC)	1264	975	491	201	76	31	31	1	0	1
PROVIDENCE (CNEC)	691	487	232	93	35	19	12	0	0	0
ROCHESTER	616	532	177	63	32	6	10	1	0	0
SCHENECTADY	455	497	230	98	36	19	12	0	0	1
SPRINGFIELD	213	204	95	45	27	9	4	0	0	0
SYRACUSE	375	366	151	79	31	16	10	0	0	0
VERMONT	262	161	108	42	12	3	3	0	0	0
WORCESTER COUNTY (CNEC)	353	432	176	74	25	8	11	0	0	0
<u>TOTAL REGION 01</u>	<u>22407</u>	<u>17317</u>	<u>7520</u>	<u>3307</u>	<u>1298</u>	<u>596</u>	<u>607</u>	<u>16</u>	<u>3</u>	<u>8</u>

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 02										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
AKRON	250	227	75	16	5	1	5	2	0	0
ALLEGHENY MOUNTAIN	52	16	5	4	0	0	0	0	0	0
BALTIMORE	1760	1467	520	245	103	42	46	2	0	1
CANTON	117	70	23	8	0	4	1	0	0	0
CENTRAL PENNSYLVANIA	387	189	80	44	18	10	5	0	0	0
CINCINNATI	388	315	106	54	17	7	10	1	0	0
CLEVELAND	890	597	224	112	39	20	17	0	0	0
COLUMBUS	666	671	247	121	32	15	18	0	0	0
DAYTON	687	525	227	97	26	15	15	0	0	0
DELAWARE BAY	203	179	73	32	14	12	4	0	0	0
EASTERN SHORE	88	50	12	7	2	1	1	0	0	0
ERIE	142	64	24	12	3	0	2	0	0	0
JOHNSTOWN	115	54	19	5	2	2	0	0	0	0
LEHIGH VALLEY	773	415	255	112	43	17	14	0	0	0
LIMA	143	29	15	5	3	1	0	0	0	0
NORTH CENTRAL OHIO	43	29	12	2	1	1	1	0	0	0
NORTHERN VIRGINIA (NCAC)	2041	2053	810	346	142	64	95	4	0	0
OHIO VALLEY	52	21	8	1	0	0	0	0	0	0
PHILADELPHIA	2840	1978	793	358	139	63	83	0	0	1
PITTSBURGH	1224	1138	420	165	68	25	26	0	0	0
SHARON	171	58	34	8	1	1	2	0	0	0
SOUTHERN NEW JERSEY	97	66	17	6	1	1	0	0	0	0
SUSQUEHANNA	397	205	77	37	17	5	7	0	0	0
WASHINGTON (NCAC)	2497	2376	980	422	176	64	85	2	2	1
WEST VIRGINIA	147	50	12	7	0	1	2	0	0	0
<u>TOTAL REGION 02</u>	<u>16170</u>	<u>12842</u>	<u>5068</u>	<u>2226</u>	<u>852</u>	<u>372</u>	<u>439</u>	<u>11</u>	<u>2</u>	<u>3</u>

## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1987

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 03										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
ALABAMA	682	475	140	51	19	9	9	0	0	0
ATLANTA	1326	1216	522	240	103	54	25	1	0	0
BATON ROUGE	225	115	40	14	7	0	1	0	0	0
BROWARD (FC)	325	255	79	20	15	9	9	0	0	0
CANAVERAL (FC)	185	90	31	11	7	2	2	0	0	0
CENTRAL GEORGIA	154	90	25	12	5	2	2	0	0	0
CENTRAL NORTH CAROLINA (NCC)	184	77	43	17	8	1	2	0	0	0
CENTRAL SAVANNAH RIVER (SCC)	110	44	20	7	6	1	3	0	0	0
CENTRAL VIRGINIA (VC)	299	212	78	33	11	12	6	2	0	0
CHARLOTTE (NCC)	448	372	84	23	10	3	1	0	0	0
CHATTANOOGA (TC)	223	149	33	9	3	1	1	0	0	0
COASTAL SOUTH CAROLINA (SCC)	229	102	39	17	7	2	3	0	0	0
COLUMBIA (SCC)	220	167	48	23	9	4	1	0	0	0
DAYTONA (FC)	130	68	21	6	1	1	0	0	0	0
EAST TENNESSEE (TC)	523	240	89	34	11	5	6	0	0	0
EASTERN NORTH CAROLINA (NCC)	970	855	341	142	70	25	17	0	0	0
EVANSVILLE-OWENSBORO	265	79	34	12	4	6	1	0	0	0
FLORIDA WEST COAST (FC)	1134	687	202	86	39	12	20	0	1	0
FORT WALTON (FC)	132	49	18	13	4	1	3	0	0	0
GAINESVILLE (FC)	149	173	58	32	12	6	5	0	0	0
HAMPTON ROADS (VC)	531	301	94	49	8	7	8	0	0	0
HUNTSVILLE	619	472	166	90	21	13	13	2	0	0
JACKSONVILLE (FC)	152	88	26	11	5	2	2	0	0	0
JAMAICA	40	32	26	12	7	10	7	0	0	0
LEXINGTON	173	78	39	25	6	4	1	0	0	0
LOUISVILLE	353	108	45	21	4	3	2	0	0	0
MEMPHIS (TC)	294	167	43	18	6	5	5	3	1	0
MIAMI (FC)	488	426	103	48	12	9	10	0	0	0
MIDDLE TENNESSEE (TC)	84	28	12	3	2	1	1	0	0	0
MISSISSIPPI	280	197	66	26	7	2	2	0	0	0
MOBILE	142	52	22	10	4	1	2	0	0	0
NASHVILLE (TC)	385	194	67	28	10	6	7	0	0	0
NEW ORLEANS	435	296	90	26	18	2	10	0	0	0
OAK RIDGE (TC)	85	69	21	10	4	1	2	0	0	0
ORLANDO (FC)	582	412	170	60	25	10	15	0	0	0
PALM BEACH (FC)	476	339	129	32	19	6	5	0	0	0
PENSACOLA (FC)	75	37	14	3	1	1	0	0	0	0
PIEDMONT (SCC)	321	220	79	24	10	5	3	0	0	0
RICHMOND (VC)	263	220	84	19	8	7	2	0	0	0
SAVANNAH	54	26	5	3	0	2	0	0	0	0
SO BREVARD INDIAN RIVER (FC)	343	326	169	88	19	7	10	0	0	0
TALLAHASSEE AREA (FC)	140	73	35	16	7	7	0	0	0	0
TRI CITIES (TC)	112	101	38	11	4	3	1	0	0	0
VIRGINIA MOUNTAIN (VC)	399	234	108	46	14	6	5	0	0	0
WESTERN NORTH CAROLINA (NCC)	107	67	19	3	4	2	1	0	1	0
WINSTON-SALEM (NCC)	104	64	17	8	5	1	0	0	0	0
<u>TOTAL REGION 03</u>	<u>14950</u>	<u>10142</u>	<u>3632</u>	<u>1492</u>	<u>581</u>	<u>279</u>	<u>231</u>	<u>8</u>	<u>3</u>	<u>0</u>

## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1987

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 04										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
ARROWHEAD	147	74	22	8	1	2	2	0	0	0
CALUMET	359	136	74	20	6	7	3	0	0	0
CEDAR RAPIDS	274	156	76	17	8	2	3	0	0	0
CENTRAL ILLINOIS	402	401	162	98	42	24	12	0	0	0
CENTRAL INDIANA	776	657	290	134	47	25	15	0	0	0
CENTRAL IOWA	325	247	72	25	12	6	4	0	0	0
CHICAGO	2632	2364	904	380	193	74	76	1	0	0
FORT WAYNE	287	160	63	19	16	7	5	0	0	0
ILLINOIS VALLEY	110	71	21	7	4	2	3	0	0	0
IOWA-ILLINOIS	133	103	16	8	4	3	4	0	0	0
MADISON	167	283	114	52	23	9	11	0	0	0
MICHIANA	240	117	42	29	8	5	6	0	0	0
MILWAUKEE	799	778	277	116	60	26	25	1	0	0
MISSOURI SLOPE	35	32	7	3	2	0	0	0	0	0
NEBRASKA	391	263	124	43	17	4	3	1	0	0
NORTHEAST MICHIGAN	222	128	39	17	8	5	5	0	0	0
NORTHEASTERN WISCONSIN	326	218	79	35	13	8	3	0	0	0
RED RIVER VALLEY	260	106	30	17	6	4	2	0	0	0
ROCK RIVER VALLEY	154	93	48	18	8	4	6	1	0	0
SIOUXLAND	107	56	18	4	1	0	2	0	0	0
SOUTHEASTERN MICHIGAN	1636	1332	548	310	129	44	53	1	0	0
SOUTHERN MINNESOTA	192	133	32	18	6	5	4	0	0	0
TOLEDO	280	136	64	23	12	1	2	0	0	0
TWIN CITIES	1163	1235	472	231	114	39	47	5	0	0
WEST MICHIGAN	340	209	66	22	9	2	5	0	1	0
<b>TOTAL REGION 04</b>	<b>11757</b>	<b>9488</b>	<b>3660</b>	<b>1654</b>	<b>749</b>	<b>308</b>	<b>301</b>	<b>10</b>	<b>1</b>	<b>0</b>

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 05										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
ARKANSAS	285	132	40	7	5	0	2	0	0	0
BEAUMONT	167	35	21	6	4	0	2	0	0	0
CENTRAL TEXAS	738	1061	391	195	94	32	30	0	0	1
CORPUS CHRISTI	169	80	29	11	7	3	2	0	0	0
DALLAS	1664	1622	721	305	132	43	62	2	0	0
DENVER	1645	1364	563	262	110	51	48	0	0	0
EL PASO	332	122	54	30	9	5	6	0	0	0
FORT WORTH	720	625	237	94	43	19	19	0	0	0
GALVESTON BAY	300	243	81	24	7	3	6	0	0	0
HOUSTON	1498	1141	419	207	70	28	30	0	0	0
KANSAS CITY	910	550	172	76	33	19	13	0	0	0
LAFAYETTE	163	103	16	6	2	2	1	0	0	0
OKLAHOMA CITY	305	174	75	29	11	3	7	0	0	0
OZARK	103	42	23	13	3	3	2	0	0	0
PANHANDLE	77	48	7	3	2	0	0	0	0	0
PERMIAN BASIN	41	24	3	5	1	2	2	0	0	0
PIKES PEAK	373	255	177	88	33	10	17	0	0	0
SAINT LOUIS	1538	953	360	154	59	29	26	0	0	0
SHREVEPORT	235	100	33	11	5	1	0	0	0	0
SOUTH PLAINS	161	52	26	12	7	5	5	0	0	0
TULSA	399	205	81	34	18	5	11	0	0	0
WICHITA	192	159	60	25	5	3	3	1	0	0
<b>TOTAL REGION 05</b>	<b>12015</b>	<b>9090</b>	<b>3589</b>	<b>1597</b>	<b>660</b>	<b>266</b>	<b>294</b>	<b>3</b>	<b>0</b>	<b>1</b>

## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1987

REGION 06	NUMBER OF IEEE SOCIETY MEMBERSHIPS									
	SECTION	0	1	2	3	4	5	6-15	16-25	26-32
ALAMOGORDO-HOLLOMAN	30	12	7	0	0	0	3	0	0	0
ALASKA	136	101	35	17	7	3	2	0	0	0
ALBUQUERQUE	519	409	217	102	40	16	17	1	0	0
BOISE	87	76	24	11	3	4	1	0	0	0
BUENAVENTURA (LAC)	489	360	200	78	47	13	15	0	1	0
CHINA LAKE (LAC)	128	119	41	19	8	2	0	1	0	0
EASTERN MONTANA	33	14	5	0	1	0	0	0	1	0
FOOTHILL (LAC)	661	475	149	91	40	10	20	0	0	0
FORT HUACHUCA	56	39	17	8	2	0	2	0	0	0
HAWAII	574	181	56	20	10	2	5	0	0	0
IDAHO	66	34	29	10	1	3	1	0	0	0
LAS VEGAS	123	76	21	10	9	6	1	0	0	0
LOS ALAMOS	107	81	44	17	5	1	9	0	0	0
METROPOLITAN LOS ANGELES (LAC)	397	399	166	85	27	17	16	1	0	0
MONTANA	158	68	18	11	4	0	1	0	0	0
NORTHERN NEVADA	141	87	29	15	5	2	3	0	0	0
OAKLAND-EAST BAY (SFBAC)	1072	1303	580	286	121	50	48	0	0	0
ORANGE COUNTY (LAC)	2023	1596	637	281	137	55	57	0	1	0
PHOENIX	1407	1033	474	226	78	35	32	2	1	0
PORTLAND	891	955	400	166	48	24	20	2	0	0
RICHLAND	197	101	28	15	8	1	2	0	0	0
SACRAMENTO	755	577	203	95	31	16	9	0	0	0
SAN DIEGO	1261	1136	507	247	121	51	57	1	0	0
SAN FERNANDO VALLEY (LAC)	979	759	371	144	69	32	23	2	0	1
SAN FRANCISCO (SFBAC)	657	796	260	125	52	26	29	1	0	0
SAN GABRIEL VALLEY (LAC)	436	452	199	103	34	18	20	1	0	0
SANTA BARBARA (LAC)	377	275	150	87	32	7	13	1	0	0
SANTA CLARA VALLEY (SFBAC)	3072	4190	2378	1146	467	211	178	5	0	1
SANTA MONICA BAY (LAC)	579	580	293	164	62	26	40	2	0	1
SEATTLE	1409	1294	531	233	103	42	44	0	0	0
SOUTH BAY HARBOR (LAC)	1040	1001	510	229	89	35	53	2	0	0
SPOKANE	283	152	47	32	15	6	2	0	0	0
TUCSON	324	268	126	59	26	14	15	1	0	0
UTAH	599	394	153	83	26	17	14	1	0	0
VANDENBERG	69	59	23	6	0	2	1	0	0	0
WENATCHEE	55	30	4	2	2	1	0	0	0	0
<u>TOTAL REGION 06</u>	21190	19482	8932	4223	1730	748	753	24	4	3

## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1987

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 07										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
CANADIAN ATLANTIC (ECC)	170	91	38	21	14	4	8	0	0	0
HAMILTON (CCC)	341	196	93	49	26	11	7	0	0	0
KINGSTON (CCC)	150	84	35	17	10	4	0	0	0	0
KITCHENER-WATERLOO (CCC)	132	167	85	43	22	8	7	0	0	0
LONDON (CCC)	192	87	49	14	13	1	6	0	0	0
MONTREAL (ECC)	844	920	361	167	78	36	27	5	0	2
N SASKATCHEWAN (WCC)	169	59	27	14	8	5	4	0	0	0
NEW BRUNSWICK (ECC)	235	68	25	12	6	2	1	0	0	0
NEWFOUNDLAND-LABRADOR (ECC)	57	29	15	9	5	1	0	0	0	0
NORTHERN CANADA (WCC)	249	281	136	63	18	15	9	1	0	0
OTTAWA (ECC)	656	704	349	170	64	30	41	1	0	0
PETERBOROUGH (CCC)	36	39	23	7	4	0	4	0	0	0
QUEBEC (ECC)	88	69	24	12	9	5	3	0	0	0
S SASKATCHEWAN(WCC)	111	38	13	7	3	7	1	0	0	0
SAINT MAURICE (ECC)	22	20	12	6	1	2	0	0	0	0
SOUTHERN ALBERTA (WCC)	255	223	87	50	32	15	12	0	0	0
TORONTO (CCC)	1332	1098	463	221	110	60	73	1	0	0
VANCOUVER (WCC)	493	425	169	63	22	16	26	0	0	1
VICTORIA (WCC)	88	77	38	25	13	5	7	0	0	0
WINNIPEG (WCC)	396	220	89	36	28	6	15	0	0	0
<u>TOTAL REGION 07</u>	6016	4895	2131	1006	486	233	251	8	0	3

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 08										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
AUSTRIA	24	64	28	22	21	12	21	0	0	0
BENELUX	553	560	292	171	81	44	76	8	0	0
DENMARK	30	85	79	52	27	14	27	1	0	0
EAST AFRICA	52	39	26	13	3	0	4	0	0	0
EGYPT	26	110	62	35	9	7	16	1	0	0
FINLAND	59	117	86	43	16	19	29	1	0	0
FRANCE	268	351	186	106	62	35	85	8	3	2
GERMANY (WEST)	236	647	368	213	109	56	106	5	1	0
GREECE	71	123	102	63	37	15	24	1	0	0
HUNGARY	46	8	6	2	0	0	0	0	0	0
IRAN	43	47	40	35	24	20	41	2	0	0
ISRAEL	238	291	149	68	35	21	27	2	4	0
MIDDLE & SOUTH ITALY	57	162	110	67	35	20	45	4	1	2
NIGERIA	39	30	16	6	3	2	3	1	0	0
NORTH ITALY	224	320	166	106	49	36	56	9	2	2
NORWAY	35	109	55	29	18	15	31	2	0	0
POLAND	6	54	25	16	2	3	2	0	0	0
PORTUGAL	43	118	68	25	23	3	18	2	0	0
SAUDI ARABIA	199	206	130	55	23	14	26	0	0	0
SOUTH AFRICA	70	78	78	42	27	12	22	0	0	0
SPAIN	98	270	177	110	68	39	90	10	2	2
SWEDEN	73	211	136	77	53	23	62	3	1	0
SWITZERLAND	332	462	296	155	82	23	67	0	0	0
UNITED ARAB EMIRATES	12	9	3	3	1	0	0	0	0	0
UNITED KINGDOM & REP IRELAND	727	1003	534	284	119	69	57	2	0	0
YUGOSLAV	9	105	91	79	30	15	20	1	0	0
COUNTRIES OUTSIDE SECTION	351	325	159	95	45	33	34	3	0	0
<u>TOTAL REGION 08</u>	3921	5904	3468	1971	1002	550	989	66	14	8



## SECTION C

TABLE 4 - NUMBER OF IEEE SOCIETY MEMBERSHIPS HELD BY IEEE MEMBERS,  
BY REGION, BY SECTION, DECEMBER 31, 1987

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 09										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
ARGENTINA	194	224	104	53	25	19	45	2	0	0
BAHIA (BC)	13	28	11	8	5	2	6	0	0	0
BRASILIA (BC)	13	18	8	2	1	3	2	0	0	0
CHILE	173	178	51	25	15	4	10	0	0	0
COLOMBIA	125	179	112	43	28	11	13	0	0	0
COSTA RICA (CAPC)	28	14	10	2	2	2	2	0	0	0
ECUADOR	14	34	34	10	10	5	8	2	0	0
EL SALVADOR (CAPC)	192	24	12	5	2	0	2	0	0	0
GUATEMALA (CAPC)	117	25	7	2	1	1	0	0	0	0
HONDURAS (CAPC)	39	24	19	4	3	2	3	0	0	0
MEXICO (MC)	453	267	105	44	16	16	21	0	1	0
MONTERREY (MC)	163	58	24	12	6	4	7	0	0	0
PANAMA (CAPC)	71	58	22	8	4	3	3	0	0	0
PERU	138	98	58	21	16	7	14	0	0	0
PUERTO RICO & CARIBBEAN	449	217	91	48	14	6	12	0	0	0
RIO DE JANEIRO (BC)	20	94	36	24	7	5	4	0	0	0
SÃO PAULO (BC)	92	141	61	42	25	13	14	0	0	0
VENEZUELAN	233	100	101	26	23	5	9	0	0	0
COUNTRIES OUTSIDE SECTION	<u>36</u>	<u>18</u>	<u>12</u>	<u>6</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>TOTAL REGION 09</u>	2563	1799	878	385	207	109	177	4	1	0

NUMBER OF IEEE SOCIETY MEMBERSHIPS										
REGION 10										
SECTION	0	1	2	3	4	5	6-15	16-25	26-32	ALL
BANGALORE (IC)	277	138	39	8	5	2	7	0	0	0
BETJING	65	150	60	10	4	5	1	1	1	0
BOMBAY (IC)	392	229	75	39	22	6	17	2	0	0
CALCUTTA (IC)	109	84	30	17	8	2	4	0	0	0
DELHI (IC)	293	198	63	32	13	5	8	0	0	0
HONG KONG	633	661	196	93	44	16	31	1	0	0
HYDERABAD (IC)	228	107	21	3	4	2	2	1	0	0
KARACHI	78	42	15	4	4	1	0	0	0	0
KERALA (IC)	380	94	31	7	4	0	0	0	0	0
KHARAGPUR (IC)	7	24	8	5	2	0	0	0	0	0
KOREA	51	300	321	202	118	57	95	10	2	6
MADRAS (IC)	920	255	64	24	10	1	2	0	0	2
MALAYSIA	124	116	58	21	6	4	5	0	0	0
NEW SOUTH WALES (AUSC)	190	363	196	140	77	45	47	0	0	0
NEW ZEALAND NORTH (NZC)	36	62	23	13	7	3	1	0	0	0
NEW ZEALAND SOUTH (NZC)	78	72	28	18	10	6	1	0	1	0
PAKISTAN	107	61	13	4	3	0	3	0	0	0
QUEENSLAND (AUSC)	70	94	71	48	26	18	12	0	0	0
REPUBLIC OF THE PHILIPPINES	27	45	21	8	4	3	4	0	0	0
SINGAPORE	963	487	182	76	41	24	24	0	0	0
SOUTH AUSTRALIA (AUSC)	18	52	33	25	9	9	8	0	0	0
TAIPEI	120	206	164	117	60	33	47	1	0	0
THAILAND	34	50	31	20	16	1	12	2	0	1
TOKYO	372	1869	1329	646	292	159	260	25	7	16
VICTORIAN (AUSC)	113	275	171	100	41	28	28	1	0	0
WESTERN AUSTRALIA (AUSC)	73	85	43	29	10	8	6	0	0	0
COUNTRIES OUTSIDE SECTION	<u>106</u>	<u>110</u>	<u>46</u>	<u>22</u>	<u>17</u>	<u>4</u>	<u>8</u>	<u>1</u>	<u>0</u>	<u>0</u>
<u>TOTAL REGION 10</u>	5864	6229	3332	1731	857	442	633	45	11	25
<u>TOTAL ALL REGIONS</u>	116853	97188	42210	19593	8422	3903	4675	195	39	51

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/87

Code	Society Name	No of Chapters	Section/Council Location					
AES-10	Aerospace & Electronic Systems	33	Atlanta	Huntsville	Saint Louis			
			Baltimore	India Council	San Diego			
			Binghamton	Israel	Santa Clara Valley			
			Central New Eng-land Council	Long Island	Seattle			
			Central Texas	Los Angeles Council	South Africa			
			Cleveland	Mohawk Valley	Southeastern Michigan			
			Dayton	New Jersey Coast	Spain			
			Denver	NY/North Jersey	Syracuse			
			Florida West Coast	Orlando	Toronto			
			Fort Wayne	Ottawa	Vancouver			
			Fort Worth	Philadelphia	Washington/No Virginia			
			Houston	Rochester				
			AP-03	Antennas & Propagation	45	Albuquerque	Los Angeles Council	South Africa
						Atlanta	Middle & South Italy	South Brevard-Indian River
Baltimore	Montreal	Southeastern Michigan						
Benelux	New Jersey Coast	Seattle						
Buffalo	North Jersey	Spain						
Central New Eng-land Council	Oakland East Bay	Spokane						
Chicago	Orlando	Springfield						
Columbus	Ottawa	Sweden						
Dallas	Philadelphia	Switzerland						
Dayton	Phoenix	Syracuse						
Denver	Princeton	Tokyo						
Egypt	Rio de Janeiro	Tucson						
Houston	San Francisco	Utah						
Huntsville	Saint Louis	Vancouver						
Israel	San Diego	Washington/No Virginia						
Kitchener-Waterloo	Santa Clara Valley	West Germany						
Long Island-NY								
ASSP-01	Acoustics, Speech & Signal Processing	30	Atlanta	Kitchener-Waterloo	San Diego			
			Beijing	Milwaukee	Santa Clara Valley			
			Boston	Montreal	Schenectady			
			Cen Pennsylvania	Northern Virginia	Southeastern Michigan			
			Connecticut	North Jersey	Spain			
			Chicago	Oakland-East Bay	Switzerland			
			Cleveland	Orange County	Tokyo			
			Dallas	Orlando	Twin Cities			
			Florida West Coast	Philadelphia	Vancouver			
			France	Pittsburgh	Washington			
			Houston	Quebec				
BT-02	Broadcast Technology	9	Chicago	Ottawa	Toronto			
			Cleveland	Philadelphia	Washington/Northern Virginia			
			Florida West Coast	Tokyo				
			New York					
CAS-04	Circuits & Systems	31	Canton	Kitchener-Waterloo	Sacramento			
			Central Indiana	Lehigh Valley	Santa Clara Valley			
			Central New Eng-land Council	Los Angeles Council	Seattle			
			Chicago	Mid-Hudson	Southeastern Michigan			
			Cleveland	Montreal	Spokane			
			Dallas/Fort Worth	New Jersey Coast	Syracuse			
			Fort Wayne	Ottawa	Switzerland			
			Hamilton	Philadelphia	Tokyo			
			Houston	Phoenix	Twin Cities			
			India Council	Pikes Peak	United Kingdom & the Republic of Ireland			
				Portland				
				Princeton				

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/87

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>		
CE-08	Consumer Electronics	10	Chicago Cleveland Florida West Coast New York	Ottawa Philadelphia Princeton Tokyo	Toronto Washington/Northern Virginia
COMM-19	Communications	71	Alabama Atlanta Baltimore Broward Canton Central Illinois Central New Eng- land Council Central Texas Charlotte Chicago Columbus Dallas Denver Eastern NC/ Western NC/ Central NC/ Winston-Salem Florida West Coast Fort Huachuca Fort Wayne France Galveston Bay Hamilton Houston India Council Israel Kansas City	Kitchener-Waterloo Long Island Los Angeles Council Maine Mexico Miami Milwaukee Mohawk Valley Montreal New Hampshire New Jersey Coast New Orleans New South Wales New York North Jersey Oakland East Bay Orlando Ottawa Peru Philadelphia Pittsburgh Phoenix Portland Princeton Puerto Rico & Caribbean	Rochester Sacramento Saint Louis San Diego Santa Clara Valley San Francisco Saskatchewan Schenectady Seattle Singapore South Africa Southeastern Michigan Spain Sweden Switzerland Syracuse Tokyo Toronto Tucson Twin Cities Vancouver Venezuela Victorian Winnipeg Washington/No Virginia
CHMT-21	Components, Hybrids & Manufacturing Technology	12	Central New Eng- land Council Chicago Dayton Lehigh Valley	Los Angeles Council New Jersey Coast NY/Long Island/ North Jersey Philadelphia	Portland Santa Clara Valley Tokyo Washington/No Virginia
CS-23	Control Systems	40	Baltimore Bangalore Buffalo Central New Eng- land Council Chicago Chile Cleveland Columbus Dallas Dayton Denver Fort Worth Hamilton	Huntsville India Council Kitchener-Waterloo Long Island/NY Mexico Milwaukee New Jersey Coast North Jersey Philadelphia Phoenix Pittsburgh Portland Rochester Sacramento	San Diego Santa Clara Valley Schenectady Singapore Southeastern Michigan Spokane Tokyo Toledo United Kingdom & the Republic of Ireland Vancouver Virginia Mountain Washington/No Virginia Wichita

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/87

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>					
COMP-16	Computer	118	Akron	France	Philadelphia			
			Alabama	Germany (West)	Phoenix			
			Argentina	Hamilton	Pikes Peak			
			Arkansas	Hampton Roads	Pittsburgh			
			Atlanta	Hong Kong	Portland			
			Baltimore	Houston	Princeton			
			Binghamton	Huntsville	Puerto Rico & Caribbean			
			Bangalore	Illinois Valley	Quebec			
			Beijing	Israel	Richland			
			Bombay	Kerala	Rochester			
			Broward	Kitchener-Waterloo	Sacramento			
			Buffalo	Korea	Saint Louis			
			Calumet	Lehigh Valley	San Diego			
			Canaveral	Louisville	Sao Paulo			
			Canadian Atlantic	Long Island	Schenectady			
			Canton	Los Angeles Council	Seattle			
			Cedar Rapids	Madras	Singapore			
			Central Georgia	Maine	South Africa			
			Central Indiana	Mexico	Southern Alberta			
			Central New Eng- land Council	Miami	Southern Minnesota			
			Central Texas	Mid-Hudson	Southeastern Michigan			
			Charlotte	Milwaukee	Spain			
			Chicago	Mohawk Valley	Spokane			
			Chile	Montreal	Switzerland			
			China Lake	Nashville	Syracuse			
			Cleveland	Nebraska	Taipei			
			Columbus	New Hampshire	Tokyo			
			Connecticut	New Jersey Coast	Toledo			
			Corpus Christi	New Orleans	Toronto			
			Dallas	New South Wales	Tri Cities			
			Dayton	New York	Tucson			
			Delaware Bay	North Jersey	Twin Cities			
			Denver	Northern Canada	Utah			
			Eastern No Carolina	Northern Virginia	United Kingdom & the Republic of Ireland			
			Eastern Shore	Oakland-East Bay	Vancouver			
			East Tennessee/ Oak Ridge	Oklahoma City	Victorian			
			Egypt	Orlando	Virginia Mountain			
			Florida West Coast	Ottawa	Washington			
			Fort Huachuca	Palm Beach	Wichita			
			Fort Wayne	Panama	Winnipeg			
			Fort Worth	Peru	Worcester County			
			DEI-32	Dielectrics & Electrical Insulation	4	Bay of Quinte	Montreal/Ottawa	Vancouver
						Hamilton	Tokyo	
						Kitchener-Waterloo		
						London/Toronto		
			ED-25	Education	7	Central New Eng- land Council	Los Angeles Council	United Kingdom & the Republic of Ireland
						Hamilton	Mexico	
							Tokyo	Utah
			EMC-27	Electromagnetic Compatibility	25	Albuquerque	Denver	Phoenix
						Atlanta	Denver (Littleton)	San Diego
						Baltimore	Los Angeles Council	Santa Clara Valley
						Central New Eng- land Council	Long Island/NY	Seattle
						Central Texas	Mohawk Valley	Tokyo
						Chicago	New Jersey Coast	Tucson
						Dayton	Orange County	Twin Cities
						Dallas/Fort Worth	Ottawa	Washington/No Virginia
	Philadelphia							

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/87

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>		
ED-15	Electron Devices	38	Albuquerque Central Illinois Central New Eng- land Council Chicago Cleveland Dallas Dayton Houston India Council Israel Kitchener-Waterloo Lehigh Valley	Los Angeles Council Mid-Hudson Milwaukee New Jersey Coast NY/Long Island Orlando Ottawa Philadelphia Phoenix Pikes Peak Pittsburgh Portland Princeton	Rio de Janeiro Rochester Saint Louis Santa Clara Valley Schenectady Southeastern Michigan Spokane Springfield Switzerland Syracuse Tokyo Twin Cities United Kingdom & Republic of Ireland Utah Washington/No Virginia
EM-14	Engineering Management	36	Atlanta Broward Buffalo Canaveral Central Indiana Central New Eng- land Council Chicago Cleveland Dallas Dayton Denver Houston	Huntsville Israel Kansas City Los Angeles Council Madras Mexico Miami Milwaukee Mohawk Valley Montreal Nebraska New Jersey Coast North Jersey/NY	Ottawa Philadelphia Pittsburgh Rochester Santa Clara Valley Sao Paulo Southeastern Michigan Spokane Toronto Tri-Cities Washington/No Virginia
EMB-18	Engineering in Medicine	38	Atlanta Baltimore Central Indiana Central New Eng- land Council Central Texas Chicago Cincinnati Cleveland Connecticut Dallas Dayton Denver	Houston Los Angeles Council Memphis Miami Milwaukee Montreal Nashville New Jersey Coast NY/Long Island/No Jersey Oakland-East Bay Philadelphia Pittsburgh	Portland Princeton Rochester Sacramento Saint Louis Santa Clara Valley Seattle Southeastern Michigan Tokyo Twin Cities Utah Washington/No Virginia Winnipeg
GRS-29	Geoscience & Remote Sensing	8	Denver European Chapter Los Angeles Council North Jersey	Oakland East Bay Southeastern Michigan	Springfield Tokyo Washington/No Virginia
IE-13	Industrial Electronics	19	Arkansas Bangalore Beaumont Chicago Chile Cleveland Connecticut	India Council Israel Lehigh Valley Los Angeles Council Mexico Milwaukee Montreal/St. Maurice Rochester Santa Clara Valley	Schenectady Singapore Tokyo Toledo Vancouver Virginia Mountain

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Table 5 - IEEE CHAPTERS - as of 12/31/87

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>					
IA-34	Industry Applications	65	Akron	Hong Kong	Pittsburgh			
			Alabama	Houston	Portland			
			Atlanta	India Council	Rio de Janeiro			
			Baltimore	Israel	Rochester			
			Bangalore	Los Angeles Council	Saint Louis			
			Baton Rouge	Madras	San Francisco			
			Buffalo	Maine	Saskatchewan			
			Calumet	Mexico	Sao Paulo			
			Central Illinois	Miami	Schenectady			
			Central New Eng- land Council	Middle Tennessee	Seattle			
			Chicago	Milwaukee	Southern Alberta			
			Cincinnati	Montreal	Southeastern Michigan			
			Cleveland	North Jersey	Spokane			
			Columbus	Northern Canada	Syracuse			
			Connecticut	NY/Long Island	Tokyo			
			Dallas	New Zealand North	Toledo			
			Dayton	Orange County	Toronto			
			Delaware Bay	Oakland-East Bay	Tulsa			
			Denver	Oklahoma City	Twin Cities			
			Eastern No Carolina	Orlando	Vancouver			
			Hamilton	Panama	Virginia Mountain			
				Philadelphia	Washington/No Virginia			
				Phoenix	Wichita			
			IT-12	Information Theory	18	Beijing	Chicago/Central	Philadelphia
						Buffalo	Illinois/Central	Phoenix
						Central New Eng- land Council	Indiana/Michiana	Santa Clara Valley
						Central NC/ Eastern NC/ Western NC/ Winston-Salem	Hamilton	Schenectady
						Dallas	Kitchener-Waterloo	Southeastern Michigan
						Denver	Los Angeles Council	Tokyo
							Montreal	Washington/No Virginia
							NY/Long Island/ North Jersey	
			IM-09	Instrumentation & Measurement	15	Central Illinois	Los Angeles Council	San Diego
Central New Eng land Council	Montreal	Southeastern Michigan						
Chicago	NY/Long Island/ North Jersey	Tokyo						
Cleveland	Ottawa	Toronto						
Denver	Portland	Washington						
LEO-36	Lasers and Electro-Optics	11	Atlanta	Metropolitan Los	Portland			
			Central New Eng- land Council	Angeles	Springfield			
			Central Texas	New Jersey Coast	Tokyo			
			Cleveland	Oakland East Bay/San	Washington/No Virginia			
			Dallas	Francisco/Santa				
			Huntsville	Clara Valley				
			Long Island					
			Los Alamos					
MAG-33	Magnetics	14	Central New Eng- land Council	Pittsburgh	Twin Cities			
			Houston	Princeton	United Kindgom & the Republic of Ireland			
			Los Angeles Council	Rochester	Washington/No Virginia			
			Milwaukee	San Diego				
			Philadelphia	Santa Clara Valley				
				Tokyo				

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/87

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>					
MTT-17	Microwave Theory & Techniques	53	Albuquerque	Kitchener-Waterloo	Schenectady			
			Atlanta	Long Island/NY	Seattle			
			Baltimore	Los Angeles Council	South Africa			
			Beijing	Middle & South Italy	South Brevard-Indian			
			Benelux	Milwaukee	River			
			Buffalo	Montreal	Southeastern Michigan			
			Central Illinois	New Jersey Coast	Spain			
			Central New Eng- land Council	North Jersey	Springfield			
			Chicago	Orlando	Sweden			
			Columbus	Ottawa	Switzerland			
			Cleveland	Philadelphia	Syracuse			
			Dallas	Phoenix	Tokyo			
			Dayton	Portland	Tucson			
			Denver	Princeton	Twin Cities			
			Egypt	Rio de Janeiro	United Kingdom & the			
			Finland	Saint Louis	Republic of Ireland			
			Florida West Coast	San Diego	Utah			
			Houston	San Fernando Valley	Venezuela			
			Huntsville	Santa Clara Valley	Washington/No Virginia			
			India Council		West Germany			
			Israel					
			NPS-05	Nuclear & Plasma Sciences	11	Benelux	India Council	Tokyo
						Central Illinois	Los Angeles Council	Washington/No Virginia/
						Central New Eng- land Council	New Orleans	Baltimore
Chicago	North Jersey							
	Santa Clara Valley							
OE-22	Oceanic Engineering	5	Canadian Atlantic	San Diego	Victoria			
			Central New Eng- land Council	Seattle	Washington/No Virginia			
			Houston/Galveston Bay					
PC-26	Professional Communication	7	Central New Eng- land Council	Los Angeles Council	United Kingdom & the			
			Chicago	Ottawa	Republic of Ireland			
				Philadelphia	Washington/No Virginia			

## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/87

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>					
PE-31	Power Engineering	114	Akron	Houston	Princeton			
			Alabama	India Council	Puerto Rico & Caribbean			
			Albuquerque	Israel	Richland			
			Argentina	Jacksonville	Rio de Janeiro			
			Arkansas	Kansas City	Rochester			
			Atlanta	Las Vegas	Sacramento			
			Baltimore	Lehigh Valley	Saint Louis			
			Bangalore	Los Angeles Council	San Diego			
			Beaumont	Madras	San Francisco			
			Berkshire	Maine	Santa Clara Valley			
			Binghamton	Memphis	Sao Paulo			
			Boston	Mexico	Saskatchewan			
			Broward	Monterrey	Schenectady			
			Buffalo	Miami	Seattle			
			Calumet	Mid-Hudson	Sharon			
			Canton	Middle Tennessee	Shreveport			
			Central Illinois	Milwaukee/Madison/ NE Wisconsin	Singapore			
			Central Indiana	Missouri Slope	Siouxland			
			Central Texas	Montreal	Southern Alberta			
			Charlotte	Nashville	Southeastern Michigan			
			Chattanooga	Nashville	Spokane			
			Chicago	Nebraska	Syracuse			
			Cincinnati	New Hampshire	Tri Cities			
			Cleveland	New Orleans	Tokyo			
			Columbus	New South Wales	Toledo			
			Connecticut	NY/Long Island	Toronto			
			Corpus Christi	North Jersey	Tucson			
			Dallas	Northern Canada	Tulsa			
			Dayton	Oakland-East Bay	Twin Cities			
			Delaware Bay	Oklahoma City	Utah			
			Denver	Orange County	Vancouver			
			Denver-Western Area	Orlando	Vermont			
			Eastern No Carolina	Ottawa	Virginia Mountain			
			East Tennessee	Palm Beach	Washington/No Virginia			
			Erie	Panama	Wichita			
			Florida West Coast	Peru	Winnipeg			
			Fort Worth	Philadelphia Phoenix	Worcester County			
			France	Pittsburgh				
			Greece	Portland				
			Hong Kong					
			Hamilton					
			R-07	Reliability	22	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
						Cleveland	Montreal	Tokyo
						Chicago	New Jersey Coast	Twin Cities
						Connecticut	NY/Long Island	Washington
			SIT-30	Social Implications of Technology	8	Central New Eng- land Council	Portland	Washington/Baltimore/ No Virginia
						Cleveland	Santa Clara Valley	
						Los Angeles Council	Switzerland	
							Twin Cities	
			SMC-28	Systems, Man & Cybernetics	17	Central New Eng land Council	Los Angeles Council	Schenectady
						Cleveland	Mexico	Santa Clara Valley
						Connecticut	Milwaukee	Southeastern Michigan
Dallas	New Jersey Coast	Tokyo						
Long Island/NY	North Jersey	Twin Cities						
	Philadelphia	Washington/No Virginia						



## SECTION C

Table 5 - IEEE CHAPTERS - as of 12/31/87

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>		
UFFC-20	Ultrasonics, Ferroelectrics and Frequency Control Society	8	Central New Eng- land Council Long Island Los Angeles Council	Orlando Pittsburgh Portland	Santa Clara Valley Washington/Baltimore/ No Virginia
VT-06	Vehicular Technology	25	Canton Central New Eng- land Council Chicago Cincinnati/Dayton Cleveland Columbus Dallas Denver	Florida West Coast Los Angeles Council Miami Montreal NY/Long Island/ North Jersey New Jersey Coast Orlando Philadelphia	Pittsburgh Sacramento Santa Clara Valley Southeastern Michigan Sweden Tokyo Toronto Vancouver Washington
33	Societies	760*			

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

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

SECTION D

TABLE 1 - SOCIETY AFFILIATES, DECEMBER 31, 1987; 5-YEAR COMPARISON

<u>CODE NO.</u>	<u>SOCIETY</u>	<u>12/31/87</u>	<u>12/31/86</u>	<u>12/31/85</u>	<u>12/31/84</u>	<u>12/31/83</u>
1	ACOUSTICS, SPEECH & SIGNAL PROCESSING	8	11	9	11	12
2	BROADCAST TECHNOLOGY	3	1	2	2	1
3	ANTENNAS & PROPAGATION	2	1	1	2	1
4	CIRCUITS & SYSTEMS	8	10	8	8	13
5	NUCLEAR & PLASMA SCIENCES	183	190	184	199	206
6	VEHICULAR TECHNOLOGY	2	4	3	4	1
7	RELIABILITY	12	10	10	16	16
8	CONSUMER ELECTRONICS	3	4	4	4	4
9	INSTRUMENTATION & MEASUREMENT	2	3	3	2	2
10	AEROSPACE & ELECTRONIC SYSTEMS	9	8	6	4	5
12	INFORMATION THEORY	10	8	6	5	10
13	INDUSTRIAL ELECTRONICS	1	0	0	0	0
14	ENGINEERING MANAGEMENT	87	81	44	39	38
15	ELECTRON DEVICES	3	2	4	3	5
16	COMPUTER	15,495	15,116	15,629	14,719	12,970
17	MICROWAVE THEORY & TECHNIQUES	22	19	3	3	4
18	ENGINEERING IN MEDICINE & BIOLOGY	61	59	68	63	63
19	COMMUNICATIONS	211	171	106	73	79
20	ULTRASONICS, FERROELECTRICS & FREQUENCY CONTROL	7	7	6	6	7
21	COMPONENTS, HYBRIDS & MANUFACTURING TECHNOLOGY	14	14	16	12	7
22	OCEANIC ENGINEERING	15	14	17	25	77
23	CONTROL SYSTEMS	18	14	17	17	18
25	EDUCATION	8	5	5	5	2
26	PROFESSIONAL COMMUNICATION	66	83	50	44	29
27	ELECTROMAGNETIC COMPATIBILITY	4	3	3	4	5
28	SYSTEMS, MAN & CYBERNETICS	51	33	32	32	32
29	GEOSCIENCE & REMOTE SENSING	71	41	38	33	40
30	SOCIAL IMPLICATIONS OF TECHNOLOGY	4	5	5	4	3
31	POWER ENGINEERING	3	5	3	1	2
32	DIELECTRICS AND ELECTRICAL INSULATION	11	12	10	7	5
33	MAGNETICS	103	106	103	85	74
34	INDUSTRY APPLICATIONS	2	3	1	1	1
35	POWER ELECTRONICS	5				
36	LASERS AND ELECTRO-OPTICS	82	90	87	77	38
	TOTALS	16,586	16,133	16,483	15,510	13,770

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

CODE	DESCRIPTION	01	02	03	04	05	06	07	08	09	10
01	ACOUSTICS, SPEECH & SIGNAL PROCESSING	1,605	1,015	522	453	566	1,464	323	709	42	509
02	BROADCAST TECHNOLOGY	609	416	339	257	204	554	175	220	54	259
03	ANTENNAS AND PROPAGATION	735	678	431	205	450	992	151	402	30	331
04	CIRCUITS AND SYSTEMS	1,540	805	622	651	721	1,811	227	484	53	397
05	NUCLEAR AND PLASMA SCIENCES	353	325	249	154	133	622	68	123	7	99
06	VEHICULAR TECHNOLOGY	278	273	192	423	121	305	130	99	15	115
07	RELIABILITY	555	314	203	186	187	510	54	128	18	100
08	CONSUMER ELECTRONICS	512	273	310	311	191	368	156	116	34	207
09	INSTRUMENTATION AND MEASUREMENT	409	286	229	177	164	460	103	147	36	135
10	AEROSPACE AND ELECTRONIC SYSTEMS	1,939	1,945	897	367	941	2,940	208	291	21	186
12	INFORMATION THEORY	310	209	82	84	106	310	47	177	13	135
13	INDUSTRIAL ELECTRONICS	1,068	985	862	899	604	976	438	481	116	528
14	ENGINEERING MANAGEMENT	2,991	2,594	1,770	1,310	1,371	3,169	519	720	211	509
15	ELECTRON DEVICES	1,175	507	277	274	435	1,643	106	361	23	524
16	COMPUTER	1,685	4,524	3,091	3,023	3,215	8,593	1,774	2,413	367	2,432
17	MICROWAVE THEORY AND TECHNIQUES	676	344	197	137	233	959	94	278	15	178
18	ENGINEERING IN MEDICINE AND BIOLOGY	774	485	325	459	303	760	165	271	44	191
19	COMMUNICATIONS	2,889	2,229	1,496	1,018	1,080	2,527	837	1,016	157	997
20	ULTRASONICS FERROELECTRICS&FREQ. CONTROL	143	76	58	56	46	138	17	63	1	58
21	COMPONENTS, HYBRIDS & MANUFACT. TECHNOL.	670	326	244	264	204	580	58	109	14	121
22	OCEANIC ENGINEERING	65	58	34	5	8	72	16	13	2	7
23	CONTROL SYSTEMS	541	472	403	368	297	724	159	352	39	236
25	EDUCATION	315	194	182	145	132	203	88	86	23	51
26	PROFESSIONAL COMMUNICATION	273	177	117	113	94	236	56	63	9	31
27	ELECTROMAGNETIC COMPATIBILITY	205	227	97	88	88	270	16	58	8	27
28	SYSTEMS, MAN AND CYBERNETICS	306	289	132	115	103	331	73	115	17	108
29	GEOSCIENCE AND REMOTE SENSING	87	115	61	33	201	147	46	51	4	40
30	SOCIAL IMPLICATIONS OF TECHNOLOGY	114	102	60	34	34	107	32	30	7	17
31	POWER ENGINEERING	2,776	2,548	3,244	2,363	2,279	3,266	1,090	1,000	519	982
32	DIELECTRICS & ELECTRICAL INSULATION	121	95	61	57	33	58	43	71	11	77
33	MAGNETICS	220	151	58	156	65	452	20	94	3	140
34	INDUSTRY APPLICATIONS	1,044	1,120	1,090	905	875	1,114	473	175	121	250
35	POWER ELECTRONICS	150	69	76	96	56	126	50	56	11	68
36	LASERS AND ELECTRO-OPTICS	742	379	249	168	280	792	111	223	20	248
37	SOLID STATE CIRCUITS	749	358	237	294	491	1,381	105	294	15	217
39	INTERDISCIPLINARY AND NEW ACTIVITIES	430	303	163	137	138	374	73	91	25	48
	TOTAL	35,054	25,266	18,660	15,785	16,449	39,334	8,101	11,380	2,105	10,558

## SECTION E

TABLE 2 - 1986 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	466	384	67	15	11,212	6,453	17,665	37.9	82.4	14.4	3.2
2	515	431	63	21	12,558	6,163	18,721	36.4	83.7	12.2	4.1
3	558	430	106	22	11,640	4,441	16,081	28.8	77.1	19.0	3.9
4	350	284	53	13	7,531	3,450	10,981	31.4	81.1	15.1	3.7
5	373	315	42	16	8,884	3,781	12,665	34.0	84.5	11.3	4.3
6	685	570	89	26	17,943	6,962	24,905	36.4	83.2	13.0	3.8
7	283	256	17	10	5,142	2,790	7,932	28.0	90.5	6.0	3.5
8	272	245	24	3	5,596	5,596	11,192	41.1	90.1	8.8	1.1
9	313	256	51	6	4,479	6,421	10,900	34.8	81.8	16.3	1.9
10	549	479	57	13	14,920	14,674	29,594	53.9	87.2	10.4	2.4
TOTAL	4,364	3,650	569	145	99,905	60,731	160,636	36.8	83.6	13.1	3.3

## SECTION E

TABLE 3 - 1986 CHAPTER MEETINGS BY SOCIETY, BY REGION

<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>SOCIETY</u>											
ASSP-01	16	20	0	13	6	11	5	10	0	19	100
BT-02	3	0	0	0	0	0	3	0	0	1	7
AP-03	27	35	23	14	23	30	14	28	3	7	204
CAS-04	4	0	0	6	11	11	4	7	0	4	47
NPS-05	3	3	0	0	0	2	0	0	0	4	12
VT-06	3	18	6	0	10	11	6	4	0	6	64
R-07	16	23	0	6	4	8	7	0	0	5	69
CE-08	8	0	0	0	0	0	0	0	0	2	10
IM-09	11	3	0	0	1	21	3	0	0	7	46
AES-10	15	25	8	0	3	17	6	3	0	2	79
IT-12	0	4	0	0	5	5	7	0	0	3	24
IE-13	0	0	0	6	2	0	6	1	7	5	33
EM-14	12	11	5	3	0	11	4	0	7	5	58
ED-15	15	8	2	7	0	2	0	0	0	8	42
COMP-16	62	46	55	29	35	45	30	13	22	42	379
MTT-17	15	10	0	7	7	20	0	2	2	9	72
EMB-18	13	9	5	18	6	17	5	0	0	9	82
COM-19	19	10	10	0	8	35	6	3	9	13	113
UFFC-20	6	7	5	0	0	14	0	0	0	10	42
CHMT-21	4	0	0	0	0	7	0	0	0	11	22
OE-22	2	2	0	0	0	1	7	0	0	0	12
CS-23	5	11	3	2	0	15	0	3	4	3	46
ED-25	0	0	0	0	0	0	0	0	13	9	16
PC-26	1	6	0	0	0	0	0	3	0	0	10
EMC-27	6	10	1	4	9	19	0	0	0	10	59
SMC-28	0	5	0	0	0	0	0	0	5	2	12
GRS-29	0	7	0	4	0	4	0	0	0	16	31
SIT-30	3	8	0	0	0	3	0	2	0	12	28
PE-31	54	56	67	34	62	68	44	2	47	29	463
EI-32	0	0	0	0	0	0	11	0	0	5	16
MAG-33	10	10	0	12	0	22	0	0	0	20	74
IA-34	2	23	18	21	10	45	2	0	12	9	142
LEO-36	8	4	0	0	9	6	0	0	0	1	28
<u>TOTAL</u>	<u>343</u>	<u>374</u>	<u>208</u>	<u>186</u>	<u>211</u>	<u>450</u>	<u>170</u>	<u>81</u>	<u>131</u>	<u>288</u>	<u>2442</u>

Not All Reporting Complete.

## SECTION E

TABLE 4 - SOCIETY AND OTHER SPONSORED AND COSPONSORED CONFERENCES SUMMARY, BY SOCIETY, BY REGION, 12/31/87

DIV.	SOCIETY	REGIONS										TOTAL	
		1	2	3	4	5	6	7	8	9	10		
I	Circuits and Systems	1	1		1	1	1						5
	Components, Hybrids, and Mfg. Technology	2			1	1	1						4
	Electron Devices	2	3	2	1	1	7		1				17
	Lasers and Electro-Optics		2	1			6						9
	Solid-State Circuits	1					1						2
II	Dielectrics and Electrical Insulation		1		1				1				3
	Industry Applications		2	3		1	1	3					10
	Instrumentation and Measurement	1					1						2
	Power Electronics			1			1						2
III	Broadcast Technology												0
	Communications			1			6	1	1		2		11
	Consumer Electronics				1								1
	Vehicular Technology			2			1	1					4
IV	Antennas and Propagation			1									1
	Electromagnetic Compatibility			2									2
	Magnetics				1						1		2
	Microwave Theory and Techniques			2			3						5
	Nuclear and Plasma Sciences		2			1	4						7
V / VIII	Computer	6	10	7	1	4	20		4		2		54
VI	Education				1								1
	Engineering Management			1									1
	Professional Communication							1					1
	Reliability		1	1			1						3
	Social Implications of Technology												0
VII	Power Engineering			2			2	2			1		7
IX	Acoustics, Speech, and Signal Processing		1			2			1				4
	Aerospace and Electronics Systems		3	2			2						7
	Geoscience and Remote Sensing				1								1
	Oceanic Engineering							1					1
	Ultrasonics, Ferroelectrics and Freq. Control		1			1							2
X	Control Systems		1		1		1						3
	Engineering in Medicine and Biology	1	1										2
	Industrial Electronics	1	1						1		2		5
	Information Theory					1							1
	Robotics and Automation	1	1	1									3
	Systems, Man, and Cybernetics		1	2			1						4
OTHER - Not (Co)Sponsored by a Society	1		2	1	2		4	2		1			13
Number of Conferences in Region*		15	28	28	10	11	49	12	10	0	9		172

\*Region numbers are not column totals since cosponsored conferences are listed under each Sponsor.

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, 1987

<u>Region Number:</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>1987</u>											
Section	22	25	46	25	22	36	20	26	19	26	267
Subsections	6	4	8	6	6	5	--	2	7	2	46
Chapters	142	111	80	68	68	116	60	44	35	63	787*
Councils	2	1	5	--	--	2	3	--	3	3	19
Student Branches	93	54	70	56	60	57	47	43	42	56	578
Student Branch Chapters	23	10	24	20	14	16	10	4	6	21	148
<u>1986</u>											
Section	22	25	46	24	22	36	20	24	18	26	263
Subsections	6	4	8	7	6	5	--	1	4	2	43
Chapters	139	111	75	66	64	115	57	40	33	60	760*
Councils	2	1	5	--	--	2	3	--	3	3	19
Student Branches	89	53	68	54	58	57	44	41	37	51	552
Student Branch Chapters	21	10	24	19	14	16	10	2	5	20	141
<u>1985</u>											
Section	22	25	46	24	22	36	20	24	15	26	260
Subsections	6	4	7	6	6	5	--	1	7	2	44
Chapters	139	107	74	64	62	112	56	35	31	53	733*
Councils	2	1	5	--	--	2	3	--	3	2	18
Student Branches	89	52	68	53	56	55	44	43	37	41	538
Student Branch Chapters	20	9	21	19	13	16	9	2	5	14	128
<u>1984</u>											
Section	22	25	45	23	22	36	18	24	16	22	253
Subsections	6	4	7	7	5	5	--	1	7	2	44
Chapters	136	104	72	62	60	104	55	31	26	50	700*
Councils	2	--	5	--	--	2	3	--	3	2	17
Student Branches	86	51	65	50	53	53	43	42	35	37	515
Student Branch Chapters	15	7	21	18	12	15	8	2	4	12	114

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

SECTION F

TABLE 2 - IEEE COUNCIL SECTION AND SUBSECTION ACTIONS 1987

REGION 4

The Red River Valley Subsection elevated to Section status February 16, 1987.

REGION 8

The Jeddah Subsection of the Saudi Arabia Section established February 16, 1987.

The United Arab Emirates Section established June 20, 1987.

The Hungary Section established August 21, 1987.

REGION 9

The Morelos Subsection of the Mexico Section established February 16, 1987

The Medellin Subsection of the Colombia Section established June 20, 1987.

The Honduras Subsection elevated to Section status August 21, 1987.

The Ciudad Juarez Subsection of the Mexico Section established August 21, 1987.

The Gunajuato Subsection of the Mexico Section established August 21, 1987.



## SECTION F

TABLE 3 - IEEE CHAPTER CHANGES IN 1987

<u>Region/Sections</u>	<u>New Chapters</u>	<u>Change in Status of Existing Chapters</u>
<u>REGION 1</u>		
Binghamton R-07		Binghamton *AES-10/R-07/*PE-31/*C-16
Rochester	CS-23/IE-13	
Springfield	AP-03/MTT-17/ED-15/ GRS-29/LEO-36	
Buffalo	AP-03/MTT-17	
<u>REGION 2</u>		
Lehigh Valley	CAS-04	
Washington, No. Virginia CS-23		***Wash/***No. Virginia-CS-23
<u>REGION 3</u>		
Atlanta	LEO-36	
Broward	COM-19	
Eastern North Carolina	C-16	
Huntsville	LEO-36	
Orlando	ASSP-01	
<u>REGION 4</u>		
Missouri Slope	PE-31	
Southern Minnesota	C-16	
<u>REGION 5</u>		
Central Texas	LEO-36	
Denver (Western Area)	PE-31	
Galveston Bay	COM-19	
Houston/Galveston Bay	OR-22	
<u>REGION 6</u>		
Oakland East Bay	COM-19	
<u>REGION 7</u>		
Montreal/St. Maurice	IE-13	
Northern Canada		PE-31/*IA-34
Ottawa-R-07/IM-09/PE-31		Ottawa **IM-09
		Ottawa **R-07/**PE-31
Victoria	OE-22	
<u>REGION 8</u>		
Egypt	AP-03/MTT-17	
Finland	MTT-17	
South Africa	C-16	
U.K. & Republic of Ireland	MTT-17/ED-15	
West Germany-MTT-17		*AP-03/MTT-17
<u>REGION 9</u>		
Peru	C-16	
Rio de Janeiro	IA-34	
<u>REGION 10</u>		
Beijing	IT-12/ASSP-01	
Beijing	C-16	
Singapore	IE-13	

- \* Existing chapter expanded to include.
- \*\* Existing joint chapter changed to a single and a joint chapter.
- \*\*\* Existing single section chapter made joint section chapter.
- \*\*\*\* Existing joint section chapter made single section chapter.

SECTION F

TABLE 4 - STUDENT BRANCH CHANGES 1987  
Formations

Region 1

Champlain College  
Hudson Valley Community College  
New York Institute of Technology-Old Westbury  
Yale University

Region 2

Edison State Community College

Region 3

Guilford Technical Community College  
Cherry Point Marine Corps Air Station

Region 4

DeVry Institute of Technology-Lombard (retroactive to November 1986)  
University of Northern Iowa

Region 5

University of Denver  
Texas A & M University-Engineering Technology

Region 7

George Brown College of Applied Arts  
Simon Fraser University  
Westerra Institute of Technology

Region 8

Fachhochschule Furtwangen  
Menoufia University

Region 9

Universidad Tecnologica Nacional Facultad Regional Buenos Aires  
Universidad Jose Simeon Canas  
Universidad de Antofagasta  
Universidad Iberoamericana  
Universidad Evangelica de El Salvador

Region 10

Gogte Institute of Technology  
Government Engineering College-Trichur  
Sri Venkateswara College of Engineering  
S. K. Crescent Engineering College  
PSNA College of Engineering and Technology

## SECTION G

TABLE 1 - IEEE PERIODICAL PUBLICATIONS OUTPUT - 1987 (Dist. Data as of 9/30/87)

Member	Non-M.	Total	Number	Total	Total	Edit.	Adv.
<u>Dist.</u>	<u>Dist.</u>	<u>Dist.</u>	<u>Periodical</u>	<u>Freq.</u>	<u>Pages</u>	<u>Pages</u>	<u>Pages</u>
248275	3698	251973	SPECTRUM	12	1600	744	856
31914	4592	40185	PROCEEDINGS	12	1760	1724	36
45144	153	45297	POTENTIALS	4	244	201	43
<u>TRANSACTIONS &amp; JOURNALS</u>							
ACOUSTICS, SPEECH & SIGNAL							
12825	2051	14876	PROCESSING	12	1724		
8727	1674	10401	AEROSPACE & ELECTRONIC SYSTEMS	6	868		
7027	1901	8928	* ANTENNAS & PROPAGATION	12	1540		
8763	2203	10966	AUTOMATIC CONTROL	12	1216		
3885	1708	5593	BIOMEDICAL ENGINEERING	12	1026		
2196	1179	3375	* BROADCASTING	4	248		
8462	1975	10437	CIRCUITS & SYSTEMS	12	1680		
12645	2550	15195	COMMUNICATIONS	12	1452		
COMPONENTS, HYBRIDS & MANUFACTURING							
3060	1417	4477	TECHNOLOGY	4	728		
COMPUTER-AIDED DESIGN OF INTEGRATED							
5818	1614	7432	CIRCUITS & SYSTEMS	6	1144		
11987	2908	14895	COMPUTERS	12	1614		
5057	1398	6455	CONSUMER ELECTRONICS	4	696		
2254	1240	3494	EDUCATION	4	284		
1709	1301	3010	ELECTRICAL INSULATION	6	861		
2826	1398	4224	ELECTROMAGNETIC COMPATIBILITY	4	348		
9246	1258	10504	ELECTRON DEVICE LETTERS	12	656		
7328	2108	9436	ELECTRON DEVICES	12	2752		
3887	1589	5476	ENERGY CONVERSION	4	720		
7452	1438	8890	ENGINEERING MANAGEMENT	4	304		
7629	1074	8703	ENGINEERING MANAGEMENT REVIEW	4	340		
2082	1252	3334	GEOSCIENCE & REMOTE SENSING	6	920		
4724	1574	6298	INDUSTRIAL ELECTRONICS	4	524		
9605	1736	11341	INDUSTRY APPLICATIONS	6	1260		
4566	1887	6453	INFORMATION THEORY	6	1028		
4821	1936	6757	INSTRUMENTATION & MEASUREMENT	4	1112		
3403	1286	4689	LIGHTWAVE TECHNOLOGY	12	1866		
3316	1729	5045	MAGNETICS	6	4028		
2319	1109	3428	MEDICAL IMAGING	4	404		
9322	1935	11257	MICROWAVE THEORY & TECHNIQUES	12	1628		
2066	1591	3657	NUCLEAR SCIENCE	6	1908		
1840	1111	2951	* OCEANIC ENGINEERING	4	1698		
PATTERN ANALYSIS & MACHINE							
7647	1708	9355	INTELLIGENCE	6	876		
1109	1153	2262	PLASMA SCIENCE	6	808		
4559	1688	6247	POWER DELIVERY	4	1360		
3230	1166	4396	POWER ELECTRONICS	4	400		
5194	1774	6968	POWER SYSTEMS	4	1168		
2237	1246	3483	PROFESSIONAL COMMUNICATION	4	248		
5402	1782	7184	QUANTUM ELECTRONICS	12	2346		
3623	1804	5427	* RELIABILITY	5	672		
7694	1235	8929	* ROBOTICS & AUTOMATION	6	756		
7752	1935	9687	SELECTED AREAS IN COMMUNICATIONS	6	1552		
13120	2730	15850	SOFTWARE ENGINEERING	6	1404		
11975	1953	13928	SOLID-STATE CIRCUITS	6	1268		
3851	1831	5682	SYSTEMS, MAN & CYBERNETICS	6	1142		
ULTRASONICS, FERROELECTRICS &							
1843	1314	3157	FREQUENCY CONTROL	6	736		
2260	1121	3481	* VEHICULAR TECHNOLOGY	4	208		
262343	75670	338013	Total TRANSACTIONS & JOURNALS	313	51521		

\*Estimated. Not all issues published at time of this report.

SECTION G

TABLE 1 - (Continued)

			<u>MAGAZINES</u>				
8989	1004	9993	AEROSPACE & ELECTRONIC SYSTEMS MAG.	12	564		
13072	1061	14133	ASSP MAGAZINE	4	180	138	42
27787	1200	28987	CIRCUITS & DEVICES MAGAZINE	6	408	368	40
24500	1586	26086	COMMUNICATIONS MAGAZINE	12	1020	901	119
82091	3226	85317	COMPUTER	12	1644	1307	337
10348	2268	12616	COMPUTER GRAPHICS & APPLICATIONS	12	1017	975	42
8892	1138	10030	CONTROL SYSTEMS MAGAZINE	6	440	367	73
6332	1920	8252	DESIGN & TEST OF COMPUTERS	6	444	391	34
7805	6627	14432	ELECTRICAL INSULATION MAGAZINE	6	450	321	129
6227	1043	7270	ENGINEERING IN MEDICINE & BIOLOGY	4	284	268	16
13767	1513	15280	EXPERT MAGAZINE	4	433	344	89
16452	1796	18248	MICRO	6	653	622	31
14716	352	15068	NETWORK MAGAZINE	4	220	183	38
20978	1084	22062	POWER ENGINEERING REVIEW	12	796	786	10
20127	1683	21810	SOFTWARE MAGAZINE	6	684	620	64
2980	1025	4005	TECHNOLOGY & SOCIETY MAGAZINE	4	128	125	3
285063	28526	313589	Total MAGAZINES	116	9365	7716	1067

TABLE 2 - 1987 IEEE NONSERIAL PUBLICATIONS OUTPUT

	<u>Number of Items</u>	<u>Total Pages</u>		<u>Number of Items</u>	<u>Total Pages</u>
Conference Records	125	72000	Preprints	491	3437
IEEE PRESS Books	22	6680	Standards	68	5294

SECTION H

1987 EDUCATIONAL ACTIVITIES STATISTICS

ACCREDITATION	<u>ABET</u>	<u>CSAB</u>
Programs reviewed	346	34
Programs accredited	336	25
Institutions visited	141	34
Evaluators trained	102	43

INDIVIDUAL LEARNING ACTIVITIES

Individual Learning Packages	
In production	16
Products shelved	6
Units sold	215
Home Video Tutorials	
In production	4
Products shelved	6
Units sold	1,011
Personal Development Products	
Products available	10
Units sold	8,538

VIDEO CONFERENCES

Optical Discs (2/26/87)	
Approved sites	152
Attendance	3,531
Computer Integrated Manuf. (5/13/87)	
Approved sites	163
Attendance	3,450
High Performance IC Pkg. (9/22/87)	
Approved sites	110
Attendance	1,938
New Tech BioMed. Eng. (10/27/87)	
Approved sites	60
Attendance	939
Microcontamination Control (12/2/87)	
Approved sites	83
Attendance	2,000

Total attendance at Videoconferences 11,858

Sale/rental of tapes from previous programs - \$45,900.00