

REPORT OF THE SECRETARY - 1976



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, Inc.
345 East 47th Street, New York, N. Y. 10017

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

Gentlemen:

The Report of the Secretary for the year 1976 is presented herewith.

1976 saw a slight decline of less than 1% in overall Institute membership. This was not unexpected in the first year of a dues increase. However, Student membership increased, so that the base for the future is well established.

Financially, 1976 was a good year. Realistic budgeting, tight financial controls, and excellent cooperation by staff and volunteers resulted in a surplus which is somewhat greater than forecast.

A total of nearly 43,000 pages of technical material was published through IEEE Headquarters, an increase of almost 11% over 1975, although 7% fewer pages appeared in Group and Society journals. IEEE SPECTRUM, in the face of continuing inflationary production costs, produced more pages than in the previous year (including four special issues), and increased both readership and advertising revenue.

Contrary to previous experience in the first year of a dues increase, membership in the Groups and Societies grew slightly in 1976. A new Division VII was established, consisting of the Power Engineering Society; the existing single TAB Vice Chairman was replaced by three Vice Chairmen for Finances, Development, and Operations; the Chairman of the Standards Board was made an IEEE Director.

Five new Sections were established in 1976, four of them outside the United States and Canada. 99% of the members are located in Sections established throughout the world.

There were a number of achievements in the area of professional activities, including: developing new policies concerning patents, ethics and amicus actions; developing a specific program plan; building an infrastructure of staff and volunteers to carry out the plan; and establishing a budget that would erase the previous year's deficit. With regard to the latter, the U.S. Activities Board ended the year with a surplus.

IEEE educational programs continued to grow, and plans have been developed for further expansion in continuing educational activities.

A reading of the 1976 annual reports of the Institute Boards and Committees, published in IEEE SPECTRUM, will indicate the extent of activity during the year to better serve the membership.

Respectfully submitted,

B. H. Schneider
Secretary, 1976

February 1977

INDEX

	Page
<u>SECTION A - IEEE MEMBERSHIP STATISTICS</u>	
Table 1 - Membership by Region, Grade, Percentage	1
Table 2 - Membership by Grade, by Percentage; 3-Year Comparison	1
Table 3 - Membership by Region, by Percentage; 3-Year Comparison	1
Table 4 - Life Members by Grade; 3-Year Comparison	2
Table 5 - Women Members by Grade; 3-Year Comparison	2
Table 6 - Membership by Grade, 1963 - 1976	2
Table 7 - Membership Changes, by Grade; 3-Year Comparison	3
Table 8 - Membership by Region, by Section and Subsection, by Grade	4
Table 9 - Membership in Region 8 by Country, by Grade; 3-Year Comparison	12
Table 10 - Membership in Region 9 by Country, by Grade; 3-Year Comparison	13
Table 11 - Membership in Region 10 by Country, by Grade; 3-Year Comparison	14
 <u>SECTION B - STUDENT BRANCH MEMBERSHIP STATISTICS</u>	
Table 1 - Student Branches and Student Branch Membership	15
 <u>SECTION C - GROUP/SOCIETY MEMBERSHIP AND CHAPTER STATISTICS</u>	
Table 1 - Group/Society Membership by Group/Society; 3-Year Comparison	22
Table 2 - Group/Society Membership by Group/Society, Region, Section	23
Table 3 - Group/Society Chapter Actions	30
Table 4 - Group/Society Chapters	31
 <u>SECTION D - GROUP/SOCIETY AFFILIATE STATISTICS</u>	
Table 1 - Group/Society Affiliates by Group; 5-Year Comparison	36
 <u>SECTION E - ORGANIZATIONAL UNITS OF THE IEEE BY REGION</u>	
 <u>SECTION F - PUBLICATION STATISTICS</u>	
Table 1 - IEEE Technical Publications Output	38
Table 2 - IEEE Transactions and Journals	38

SECTION A

Table 1 - IEEE Membership by Region, Grade, Percentage, as of December 31, 1976

	<u>H</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>Subtotal</u>	<u>S</u>	<u>Total Membership</u>	<u>Per- Centage</u>
Region 1	1	929	4,752	24,372	2,615	32,669	4,471	37,140	21
Region 2		512	3,851	18,230	1,294	23,887	2,973	26,860	15
Region 3		281	2,271	10,998	869	14,419	2,631	17,050	10
Region 4		232	2,135	12,299	1,016	15,682	3,238	18,920	11
Region 5	1	166	1,853	10,592	644	13,256	2,993	16,249	9
Region 6		595	4,227	24,088	1,630	30,540	3,556	34,096	19
Subtotal	2	2,715	19,089	100,579	8,068	130,453	19,862	150,315	85
Region 7		59	765	5,760	1,055	7,639	2,406	10,045	6
Region 8		191	905	5,004	445	6,545	1,107	7,652	4
Region 9		11	194	2,613	274	3,092	1,016	4,108	2
Region 10		61	490	4,165	359	5,075	959	6,034	3
Military		1	27	386	38	452	10	462	
Total	2	3,038	21,470	118,507	10,239	153,256	25,360	178,616	100

Table 2 - IEEE Membership by Grade, Percentage; 3-Year Comparison

	<u>December 31, 1976</u>		<u>December 31, 1975</u>		<u>December 31, 1974</u>	
	<u>Number</u>	<u>% of Total</u>	<u>Number</u>	<u>% of Total</u>	<u>Number</u>	<u>% of Total</u>
Honorary (H)	2		2		3	
Fellow (F)	3,038	2	3,058	2	3,061	2
Senior Member (SM)	21,470	12	22,133	12	22,422	13
Member (M)	118,507	66	119,567	66	115,287	66
Associate (A)	10,239	6	10,738	6	10,955	6
Student (S)	25,360	14	24,318	14	21,795	13
Total	178,616	100	179,816	100	173,523	100

Table 3 - IEEE Membership by Region, Percentage; 3-Year Comparison

	<u>December 31, 1976</u>		<u>December 31, 1975</u>		<u>December 31, 1974</u>	
	<u>Number</u>	<u>% of Total</u>	<u>Number</u>	<u>% of Total</u>	<u>Number</u>	<u>% of Total</u>
Region 1	37,140	21	38,548	21	38,503	22
Region 2	26,860	15	27,600	15	26,947	16
Region 3	17,050	10	17,073	10	16,352	9
Region 4	18,920	11	18,980	11	18,247	11
Region 5	16,249	9	16,151	9	15,233	8
Region 6	34,096	19	34,457	19	33,397	19
Subtotal	150,315	85	152,809	85	148,679	85
Region 7	10,045	6	9,979	6	9,379	6
Region 8	7,652	4	7,298	4	6,863	4
Region 9	4,108	2	3,922	2	3,465	2
Region 10	6,034	3	5,301	3	4,491	3
Military	462		507		646	
Total	178,616	100	179,816	100	173,523	100

SECTION A

Table 4 - IEEE Life Members by Grade; 3-Year Comparison

	<u>December 31, 1976</u>	<u>December 31, 1975</u>	<u>December 31, 1974</u>
Fellow	1,281	1,323	1,315
Senior Member	3,028	2,926	2,748
Member	1,600	1,494	1,377
Associate	<u>118</u>	<u>94</u>	<u>75</u>
Total	6,027	5,837	5,515

Table 5 - IEEE Women Members by Grade; 3-Year Comparison

	<u>December 31, 1976</u>	<u>December 31, 1975</u>	<u>December 31, 1974</u>
Fellow	5	5	5
Senior Member	62	59	58
Member	755	547	509
Associate	104	219	99
Student	<u>724</u>	<u>541</u>	<u>435</u>
Total	1,650	1,371	1,106

Table 6 - IEEE Membership by Grade, 1963 - 1976

<u>Year</u>	<u>H</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>S</u>	<u>Total</u>
1963	5	2,589	26,274	82,750	14,215	28,676	154,509
1964	5	2,598	26,182	87,435	13,682	24,076	153,978
1965	5	2,682	26,387	87,916	12,949	24,259	154,198
1966	5	2,759	26,254	97,834	14,114	19,104	160,070
1967	4	2,817	25,411	94,746	12,991	22,248	158,217
1968	4	2,885	25,023	97,326	13,200	23,930	162,368
1969	4	2,917	24,815	101,058	13,235	24,319	166,348
1970	4	2,951	24,229	104,053	13,138	24,684	169,059
1971	4	3,004	23,802	105,919	12,766	20,987	166,482
1972	4	3,019	23,281	108,725	11,984	20,210	167,223
1973	4	3,017	22,561	108,854	11,210	22,169	167,815
1974	3	3,061	22,422	115,287	10,955	21,795	173,523
1975	2	3,058	22,133	119,567	10,738	24,318	179,816
1976	2	3,038	21,470	118,507	10,239	25,360	178,616

Table 7 - IEEE Membership Changes, by Grade, During Calendar Year 1976; 3-Year Comparison

	<u>H</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>Subtotal</u>	<u>S</u>	<u>Total</u>
Active Membership 12/31/75	2	3,058	22,133	119,567	10,738	155,498	24,318	179,816
Additions								
Elections		0	143	5,109	569	5,825	13,321	19,142
Dues Arrears Paid		95	1,291	10,125	931	12,438	1,177	13,619
Reinstatements		4	57	557	55	673	150	823
Transfers to		<u>112</u>	<u>521</u>	<u>11,984</u>	<u>1,531</u>	<u>14,148</u>	<u>3,253</u>	<u>17,401</u>
Total Additions		211	2,012	27,775	3,086	33,084	17,901	50,985
Deletions								
Resignations		53	313	1,005	151	1,522	129	1,651
Deceased		73	203	203	27	506	9	515
Dues Arrears		105	2,047	24,090	3,045	29,287	3,331	32,618
Transfers from		<u>112</u>	<u>521</u>	<u>3,537</u>	<u>362</u>	<u>4,011</u>	<u>13,390</u>	<u>17,401</u>
Total Deletions		231	2,675	28,835	3,585	35,326	16,859	52,185
Active Membership - 12/31/76	2	3,038	21,470	118,507	10,239	153,256	25,360	178,616
Gain/Loss		-20	-663	-1,060	-499	-2,242	+1,042	-1,200
December 31, 1976 December 31, 1975 December 31, 1974								
Additions								
Elections		19,142			20,615		18,906	
Reinstatements		823			1,266		1,191	
Dues Arrears Paid		13,619			16,966		13,896	
Transfers to		<u>17,401</u>			<u>16,980</u>		<u>17,234</u>	
Total Additions		50,985			55,827		51,227	
Deletions								
Resignations		1,651			1,654		1,385	
Deceased		515			508		466	
Dues Arrears		32,618			30,392		26,434	
Transfers from		<u>17,401</u>			<u>16,980</u>		<u>17,234</u>	
Total Deletions		52,185			49,534		45,519	
Net Gain/Loss		-1,200			+6,293		+5,708	

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1976

REGION 1

Section	H	F	SM	M	A	Subtotal	S	Subtotal	Section Total
Berkshire		19	86	174	11	290	15		305
Binghamton		2	79	389	55	525	65		590
Boston		165	694	3703	257	4819	596	5415	6761
Lynn		9	46	177	16	248	26	274	
Merrimack Valley		11	103	824	63	1001	71	1072	
Buffalo		12	140	539	65	756	202		958
Connecticut		27	170	969	100	1266	191	1457	3006
Fairfield County		26	190	861	95	1172	53	1225	
New London		4	26	252	17	299	25	324	
Ithaca		7	14	107	7	135	92		227
Long Island		66	460	2556	302	3384	226		3610
Maine		7	44	222	21	294	54		348
Mid-Hudson		13	98	698	58	867	59		926
Mohawk Valley		11	51	331	19	412	16	428	545
St. Lawrence Int'l			9	47	11	67	50	117	
New Hampshire		11	98	588	74	771	165		936
New Jersey Coast		73	244	1266	85	1668	79		1747
New York	1	47	369	2237	495	3149	983	4132	5656
Westchester		48	196	964	141	1349	175	1524	
North Jersey		145	663	3231	336	4375	409		4784
Princeton		72	234	1130	101	1537	171		1708
Providence		21	97	571	58	747	129		876
Rochester		9	116	758	77	960	138		1098
Schenectady		74	264	568	56	962	186		1148
Springfield		3	37	170	20	230	88		318
Syracuse		36	138	544	30	748	89		837
Vermont		8	30	199	22	259	50		309
Worcester County		3	56	297	23	379	68		447
TOTALS	1	929	4,752	24,372	2,615	32,669	4,471		37,140

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1976

REGION 2

Section	H	F	SM	M	A	Subtotal	S	Subtotal	Section Total
Akron		8	67	302	14	391	74		465
Allegheny Mountain		1	16	50	5	72	9		81
Baltimore		33	294	1238	80	1645	123	1768	2564
Annapolis		9	94	602	29	734	62	796	
Canton		1	35	127	11	174	36		210
Central Pennsylvania		5	49	171	9	234	143		377
Cincinnati		8	78	485	27	598	115		713
Cleveland		35	250	1025	76	1386	214		1600
Columbus		17	118	664	87	886	215	1101	1147
Zanesville			8	20	11	39	7	46	
Dayton		12	143	881	78	1114	148		1262
Delaware Bay		4	45	281	16	346	51		397
Eastern Shore		5	15	85	19	124	11		135
Erie		5	63	150	8	226	43		269
Johnstown		3	22	109	19	153	43		196
Lehigh Valley		24	159	733	64	980	138		1118
Lima		4	31	61	5	101	28		129
North Central Ohio		1	27	71	9	108	16		124
Northern Virginia		44	384	2243	127	2798	86		2884
Ohio Valley			7	71	6	84	4		88
Philadelphia		100	678	3280	256	4314	507		4821
Pittsburgh		74	424	1423	59	1980	372	2352	2465
Upper Monongahela		2	6	70	2	80	33	113	
Sharon		6	51	140	13	210	76		286
Southern New Jersey		2	22	109	14	147	23		170
Susquehanna		4	67	337	27	435	54		489
Washington		105	678	3335	206	4324	307		4631
West Virginia			20	167	17	204	35		239
TOTALS		512	3,851	18,230	1,294	23,887	2,973		26,860

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1976

REGION 3

Section	H	F	SM	M	A	Subtotal	S	Subtotal	Section Total
Alabama		5	147	477	17	646	172		818
Atlanta		21	163	931	91	1206	248	1454	1514
Rome			16	35	4	55	5	60	
Baton Rouge		1	19	171	1	192	115		307
Broward		19	66	322	46	453	19		472
Canaveral		8	70	459	25	562	44		606
Central North Carolina			29	159	8	196	15		211
Central Savannah River		1	6	61	6	74	3		77
Central Virginia		14	72	285	12	383	50		433
Charlotte		6	91	290	62	449	87		536
Chattanooga		7	57	189	17	270	19		289
Coastal South Carolina		2	29	136	10	177	101		278
Columbia		2	36	167	7	212	49		261
Daytona		4	26	85		115	5		120
Eastern North Carolina		15	76	469	68	628	221	849	896
Lower Cape Fear			6	33	2	41	6	47	
East Tennessee		5	64	320	13	402	115	517	595
Upper East Tennessee		1	11	52	4	68	10	78	
Evansville-Owensboro		1	27	126	7	161	62	223	263
Paducah			1	30	5	36	4	40	
Florida West Coast		69	203	731	48	1051	51		1102
Fort Walton			10	108	3	121	6		127
Gainesville		11	26	119	1	157	82		239
Hampton Roads		3	53	398	21	475	99		574
Huntsville		3	55	519	18	595	28	623	668
Muscle Shoals			6	35	2	43	2	45	
Jacksonville			39	128	13	180	6		186
Lexington		1	19	146	2	168	53		221
Louisville		2	46	250	11	309	78		387
Memphis			44	180	43	267	104	371	432
Jackson			5	40	7	52	9	61	
Miami		10	103	510	60	683	42		725
Middle Tennessee			20	52	2	74	6		80
Mississippi			23	214	8	245	47	292	398
Northeast Mississippi		1	8	46	1	56	50	106	
Mobile			14	127	10	151	34		185
Nashville		4	50	180	11	245	90		335
New Orleans		4	97	509	29	639	95		734
Oak Ridge		3	34	107	2	146	19		165
Orlando		13	91	438	33	575	30		605
Palm Beach		21	67	256	46	390	38		428
Panama City		2	12	83	4	101	5		106
Pensacola		1	5	81	6	93	10		103
Piedmont		4	33	188	29	254	97		351
Richmond		3	45	311	20	379	14		393
Savannah			17	43	5	65	6		71
Virginia Mountain		6	80	229	11	326	164		490
Western North Carolina		7	22	69	8	106	6		112
Winston-Salem		1	32	104	10	147	10		157
TOTALS		281	2,271	10,998	869	14,419	2,631		17,050

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1976

REGION 4

<u>Section</u>	<u>H</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>Subtotal</u>	<u>S</u>	<u>Subtotal</u>	<u>Section Total</u>
Arrowhead			16	113	8	137	4		141
Calumet		2	41	301	57	401	115		516
Cedar Rapids		5	46	292	20	363	42		405
Central Illinois		25	87	389	26	527	354		881
Central Indiana		17	126	705	57	905	333	1238	1345
Bloomington		2	15	78	9	104	3	107	
Central Iowa		6	49	179	6	240	80		320
Chicago		45	283	1360	128	1816	308	2124	4942
Fox Valley		9	158	1179	91	1437	57	1494	
Northwest		9	168	971	87	1235	89	1324	
Fort Wayne		6	71	270	21	368	28		396
Illinois Valley			27	111	5	143	40		183
Iowa-Illinois		1	43	168	17	229	10		239
Madison		7	37	222	13	279	123		402
Michiana		1	29	191	27	248	63		311
Milwaukee		19	173	813	33	1038	231	1269	1407
Racine-Kenosha		4	13	67	17	101	37	138	
Nebraska		3	69	414	81	567	125		692
Northeast Michigan		2	26	165	22	215	67		282
Northeastern Wisconsin		1	20	130	10	161	22	183	375
Upper Peninsula			11	79	6	96	96	192	
Rock River Valley			16	172	12	200	29		229
Siouxland			17	77	11	105	13		118
Southeastern Michigan		41	288	1783	125	2237	562		2799
Southern Minnesota			8	194	8	210	13		223
Toledo		2	57	230	39	328	79		407
Twin Cities		23	168	1256	51	1498	174	1672	1889
Red River Valley			12	128	3	143	74	217	
West Michigan		2	61	262	26	351	67		418
TOTALS		232	2,135	12,299	1,016	15,682	3,238		18,920

REGION 5

Section	H	F	SM	M	A	Subtotal	S	Subtotal	Section Total
Arkansas		3	40	227	11	281	35		316
Beaumont		1	25	133	8	167	58		225
Central Texas		24	96	712	29	861	234		1095
Corpus Christi		1	21	110	21	153	59	212	254
Victoria-Pt. Lavaca			3	37	1	41	1	42	
Dallas	1	31	225	1873	71	2201	125		2326
Denver		38	285	1463	79	1865	391	2256	2643
Black Hills			4	42	1	47	65	112	
Pikes Peak			26	172	11	209	66	275	
El Paso		2	40	251	18	311	140		451
Fort Worth		2	84	448	22	556	69		625
Houston		9	181	1262	73	1525	531	2056	2702
Clear Lake		1	53	460	19	533	68	601	
Freeport		1	8	30	2	41	4	45	
Kansas City		8	193	723	88	1012	199		1211
Lafayette			1	81	5	87	64		151
Oklahoma City		6	86	280	16	388	52		440
Ozark		2	24	93	2	121	57		178
Panhandle		1	23	92	8	124	7		131
Permian Basin			3	61	5	69	12		81
Saint Louis		26	229	1191	71	1517	416		1933
Shreveport		2	45	182	18	247	108	355	408
Monroe			1	34	2	37	16	53	
South Plains			20	75	6	101	75		176
Tulsa		5	86	301	40	432	77		509
West Central Texas		1	12	51	2	66	5		71
Wichita		2	39	208	15	264	59		323
TOTALS	1	166	1,853	10,592	644	13,256	2,993		16,249

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1976

REGION 6

Section	H	F	SM	M	A	Subtotal	S	Subtotal	Section Total
Alamogordo-Holloman		1	12	32	2	47			47
Alaska			11	132	30	173	10	183	234
Interior Alaska			5	25	3	33	18	51	
Albuquerque		16	95	477	33	621	76		697
Antelope Valley			6	56	6	68	2		70
Boise			25	71	4	100	13		113
Buenaventura		3	57	522	34	616	26		642
China Lake			12	161	9	182	9		191
Foothill		7	113	636	46	802	61		863
Eastern Montana			4	46		50	4		54
Fort Huachuca			12	82	9	103	5		108
Hawaii		7	30	408	32	477	43		520
Idaho		1	13	79	6	99	7		106
Las Vegas			13	96	13	122	5		127
Los Alamos			36	123	3	162	9		171
Met. Los Angeles		28	137	679	58	902	176		1078
Montana		1	16	103	2	122	40		162
Oakland-East Bay		45	214	1231	75	1565	333		1898
Orange County		17	259	1935	123	2334	131	2465	3256
Saddleback		25	110	571	45	751	40	791	
Phoenix		27	241	1137	64	1469	152		1621
Portland		25	173	868	56	1122	103	1225	1534
Eugene		4	27	129	23	183	126	309	
Richland		3	34	153	7	197	21		218
Sacramento		6	78	422	31	537	138	675	963
Reno		4	26	91	5	126	46	172	
San Joaquin		1	8	73	7	89	27	116	
San Diego		21	246	1209	90	1566	117		1683
San Fernando Valley		23	284	1283	102	1692	117		1809
San Francisco		21	195	950	84	1250	113		1363
San Gabriel Valley		20	139	580	38	777	65		842
Santa Barbara		13	74	354	18	459	99		558
Santa Clara Valley		159	690	4748	265	5862	493		6355
Santa Monica Bay		54	198	955	84	1291	188		1479
Seattle		23	251	1427	92	1793	192		1985
South Bay Harbor		14	206	1363	67	1650	116		1766
Spokane		2	38	155	9	204	95		299
Tucson		14	72	222	15	323	49		372
Utah		9	50	378	30	467	284		751
Vandenberg			10	89	7	106	4		110
Wenatchee		1	7	37	3	48	3		51
TOTALS		595	4,227	24,088	1,630	30,540	3,556		34,096

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1976

REGION 7

Section	H	F	SM	M	A	Subtotal	S	Subtotal	Section Total
Bay of Quinte		1	35	140	20	196	120		316
Canadian Atlantic			13	137	8	158	59	217	272
Nfld. - Labrador			6	41	2	49	6	55	
Hamilton			47	257	117	421	198		619
Kitchener-Waterloo		1	24	168	73	266	135		401
London		1	18	128	42	189	93		282
Montreal		10	170	1103	95	1378	361		1739
New Brunswick			12	101	13	126	54		180
Northern Canada			11	212	42	265	68		333
Ottawa		15	106	921	118	1160	226		1386
Quebec		1	8	127	9	145	63		208
Saint Maurice			1	34	2	37	15		52
Saskatchewan			7	102	25	134	80		214
Southern Alberta			15	211	52	278	138		416
Toronto		22	149	1344	321	1836	506		2342
Vancouver		5	86	482	58	631	143		774
Victoria		1	13	66	14	94	13		107
Winnipeg		2	44	186	44	276	128		404
TOTALS		59	765	5,760	1,055	7,639	2,406		10,045

REGION 8

Benelux		18	91	518	37	664	194		858
Denmark		1	12	150	16	179	24		203
Egypt		4	18	71	3	96	28		124
Finland			1	98	5	104	67		171
France		32	90	475	42	639	33		672
Germany (West)		18	82	369	47	516	9		525
Greece		2	13	122	13	150	38		188
Iran			17	150	10	177	8		185
Israel		11	35	252	20	318	42		360
Middle & South Italy		2	22	154	22	200	19		219
North Italy		9	18	372	43	442	176		618
Norway		3	25	84	5	117			117
Poland		2	38	7	2	49	1		50
Spain			21	203	18	242	108		350
Sweden		5	59	239	31	334	111		445
Switzerland		19	71	472	32	594	80		674
U.K. & R.I.		58	221	774	71	1124	102		1226
Yugoslav			6	76	1	83	6		89
TOTALS		184	840	4,586	418	6,028	1,046		7,074
Not Assigned to Sections (See Table 9)		7	65	418	27	517	61		578
TOTAL REGION 8		191	905	5,004	445	6,545	1,107		7,652

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1976

REGION 9

Section	H	F	SM	M	A	Subtotal	S	Subtotal	Section Total
Argentina		2	16	97	19	134	24		158
Bahia			1	72	1	74	33		107
Central America				4		4	2	6	286
Costa Rica			3	33	3	39	3	42	
El Salvador			5	49	7	61	13	74	
Guatemala			3	46	1	50	26	76	
Honduras				18		18	1	19	
Nicaragua			4	48	4	56	13	69	
Chile				7	35	12	54	113	167
Colombia				14	123	35	172	111	283
Ecuador				2	88	19	109	15	124
Mexico		4	33	358	21	416	121	537	565
Guadalajara		1	3	13	2	19	9	28	
Monterrey			3	97	2	102	84		186
Panama			1	69	4	74	10		84
Peru			7	106	7	120	17	137	180
La Oroya				39	1	40	3	43	
Puerto Rico & V.I.			20	261	22	303	51		354
Rio de Janeiro		3	25	262	30	320	55		375
Sao Paulo			15	374	31	420	227		647
Venezuelan			14	257	19	290	73		363
TOTALS		10	176	2,449	240	2,875	1,004		3,879

Not Assigned to Sections
(See Table 10)

		1	18	164	34	217	12		229
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TOTAL REGION 9 11 194 2,613 274 3,092 1,016 4,108

REGION 10

Australian		1	53	459	20	533	90	623	811
Victorian		1	10	145	12	168	20	188	
Bangalore			17	68	5	90	11	101	313
Kerala			5	39	2	46		46	
Tamil Nadu		1	13	73	17	104	62	166	
Bombay		4	52	205	9	270	71		341
Delhi		2	25	93	5	125	55	180	330
Eastern Zone			15	71	3	89	8	97	
Uttar Pradesh			7	25	1	33	20	53	
Hong Kong			13	488	85	586	182		768
Korea			5	73	5	83	69		152
New Zealand			12	74	10	96	30		126
Pakistan			13	61	7	81			81
Republic of China		1	7	177	8	193	103		296
Republic of the Philippines			6	48	6	60	19		79
Tokyo		51	182	1,557	100	1,890	205		2,095
TOTALS		61	435	3,656	295	4,447	945		5,392

Not Assigned to Sections
(See Table 11)

			55	509	64	628	14		642
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SUBTOTAL 61 490 4,165 359 5,075 959 6,034

U.S. Military 1 27 386 38 452 10 462

TOTAL REGION 10 62 517 4,551 397 5,527 969 6,496

SECTION A

TABLE 9 - IEEE Membership in Region 8, by Country, by Grade
December 31, 1976 - 3-Year Comparison

Country	F	SM	M	A	S	12/31/76 Total	12/31/75 Total	12/31/74 Total
Algeria	1		8	1		10	10	6
Austria	2	9	30	5	6	52	44	39
Bahrein			4	1		5	2	4
Bulgaria		1	1			2	4	4
Chad					1	1		
Cyprus		3	12			15	18	22
Czechoslovakia		4	9	4	5	22	19	18
Ethiopia			3			3	4	6
Germany, E&E Berlin							1	1
Gibraltar			2			2	2	2
Hungary		9	4			13	12	9
Iceland			8	1	1	10	7	6
Iraq		1	28	2	2	33	24	12
Jordan		1	15	1		17	11	8
Kuwait		2	32		1	35	32	31
Lebanon			5			5	29	35
Libya		1	30	1	5	37	34	23
Mali			1			1	1	2
Malta, Isle of			5			5	5	4
Monaco								1
Morocco		1	6			7	4	3
Muscat			2			2	2	2
Portugal			21	1	4	26	29	35
Qatar			10			10	9	9
Rumania		3	1	1	1	6	7	7
Saudi Arabia	2	12	83	4	1	102	102	79
Sudan			2			2	2	1
Syria			8	1		9	7	9
Trucial Oman		1	12			13	7	2
Tunisia								2
Turkey		5	70	2	33	110	92	72
U. S. S. R.	<u>2</u>	<u>12</u>	<u>6</u>	<u>2</u>	<u>1</u>	<u>23</u>	<u>24</u>	<u>23</u>
Totals	7	65	418	27	61	578	544	477
Members Assigned to IEEE Sections	<u>184</u>	<u>840</u>	<u>4,586</u>	<u>418</u>	<u>1,046</u>	<u>7,074</u>	<u>6,754</u>	<u>5,909</u>
TOTAL, REGION 8	191	905	5,004	445	1,107	7,652	7,298	6,386

SECTION A

TABLE 10 - IEEE Membership in Region 9, by Country, by Grade
December 31, 1976, 3-Year Comparison

Country	F	SM	M	A	S	12/31/76 Total	12/31/75 Total	12/31/74 Total
Bahamas & Bermuda		7	15	9		31	29	
Belize			2			2	3	2
Bolivia			32	1	5	38	30	12
Brazil		1	31	4	2	38	30	21
Cuba		2	1		1	4	3	4
Dominican Republic			10	2		12	12	12
Ecuador								1
Falkland Islands								9
Guyana		1	6			7	12	1
Haiti								1
Jamaica		4	34	6		44	48	
Leeward Islands		1	2			3	1	
Netherland Antilles			1		1	2	5	6
Paraguay			1	1	1	3	1	1
Surinam			3		1	4	4	5
Trinidad & Tobago		1	16	6		23	28	
Uruguay			3	2	1	6	4	3
Windward Islands	<u>1</u>	<u>1</u>	<u>7</u>	<u>3</u>	<u>—</u>	<u>12</u>	<u>14</u>	<u>112</u>
TOTAL	1	18	164	34	12	229	224	190
Members Assigned to Sections	<u>10</u>	<u>176</u>	<u>2,449</u>	<u>240</u>	<u>1,004</u>	<u>3,879</u>	<u>3,698</u>	<u>3,275</u>
TOTAL, REGION 9	11	194	2,613	274	1,016	4,108	3,922	3,465

SECTION A

TABLE 11 - IEEE Membership in Region 10, by Country, by Grade
December 31, 1976, 3-Year Comparison

Country	F	SM	M	A	S	12/31/76	12/31/75	12/31/74
						Total	Total	Total
Afghanistan		1	2			3	1	1
Africa								
Angola							3	3
Botswana		1	2	1		4	8	7
Cameroon			2		1	3	2	2
Gabon					1	1		
Dahomey							1	
Ghana			6	1		7	9	6
Kenya		2	20	3	1	26	29	24
Liberia			6			6	2	2
Malawi			4			4	2	1
Mozambique								1
Nigeria		5	88	10	3	106	82	56
Rhodesia		1	5			6	8	8
Senegal							1	1
Sierra Leone			2			2	3	2
South Africa		19	49	7	2	77	78	73
Swaziland		1				1	2	2
Tanzania			2	1		3	5	6
Uganda			3			3	3	3
Zaire			2			2	3	3
Zambia		2	23	2		27	30	30
Bangladesh		2	10			12	13	12
Brunei			1			1		
Burma			3			3	3	4
Cambodia								3
Caroline Islands			1	1		2		
Fiji Islands		1	2			3	2	1
Goa			2			2		
Guam		2	7	1		10	12	1
Indonesia		4	21			25	24	23
Macao			1			1	1	1
Malagasy Republic								1
Malaysia		2	64	2	1	69	205	186
Mariana Islands		1				1	1	
Marshall Islands			1			1	1	
Mauritius			8	2		10	6	4
Sabah, State of								1
Samoa			2			2	2	2
Singapore		1	125	24	1	151		
South Korea							128	98
Sri Lanka (Ceylon)		4		6	2	12	11	11
Thailand		5	39	3	2	49	49	47
Togo							1	
Tonga							1	2
Vietnam, North & South		1	6			7	17	24
TOTALS		55	509	64	14	642	749	652
Members Assigned to IEEE Sections	61	435	3,656	295	945	5,392	4,552	3,839
SUBTOTAL	61	490	4,165	359	959	6,034	5,301	4,491
U. S. Military	1	27	386	38	10	462	507	646
TOTAL, REGION 10	62	517	4,451	397	969	6,496	5,808	5,137

SECTION B

Table 1 - IEEE Student Branches and Student Branch Membership, 1976
 Membership as of December 31, 1976

Eleven Student Branches were established during 1976. The total number of Student Branches is now 443 operating as follows:

- 362 - IEEE Four-Year Student Branches
- 79 - IEEE Less Than Four-Year Student Branches*
- 2 - IEEE Section Student Branches

** Established in 1976

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership</u> <u>1976</u>
*Academy of Aeronautics	New York	1	56
Air Force Institute of Technology	Dayton	2	28
Akron, University of	Akron	2	64
Akron, University of, Technical and Community College	Akron	2	8
Alabama, University of	Alabama	3	56
Alabama, University of, at Birmingham	Alabama	3	17
Alabama, University of, at Huntsville	Huntsville	3	16
Alaska, University of	Anchorage	6	23
Alberta, University of	Northern Canada	7	49
*Algonquin College of Applied Arts and Technology	Ottawa	7	34
*Anne Arundel Community College	Washington	2	12
Arizona State University	Phoenix	6	75
Arizona, University of	Tucson	6	57
Arkansas, University of	Ozark	5	71
Arkansas, University of, at Little Rock	Arkansas	5	16
**Athens, National University of	Greece	8	22
Auburn University	Alabama	3	88
Bologna, University of	North Italy	8	22
Boston University	Boston	1	49
Bradley University	Illinois Valley	4	51
Bridgeport, University of	Connecticut	1	30
Brigham Young University	Utah	6	128
*British Columbia Institute of Technology	Vancouver	7	28
British Columbia, University of	Vancouver	7	117
*Bronx Community College (Day Division)	New York	1	38
*Bronx Community College (Evening Division)	New York	1	16
*Broome Community College	Binghamton	1	30
Brown University	Providence	1	23
Bucknell University	Central Pennsylvania	2	12
Buenos Aires, Instituto Tecnologico de	Argentina	9	0
Buenos Aires, University of	Argentina	9	11
Cairo, University of	Egypt	8	12
Calgary, University of	Southern Alberta	7	68
California State Polytechnic University (Kellogg-Voorhis Campus)	Foothill	6	52
California State Polytechnic University (San Luis Obispo)	Santa Barbara	6	55
California State University at Chico	Sacramento	6	17
California State University at Fresno	San Francisco	6	30
California State University at Fullerton	Orange County	6	36
California State University at Long Beach	South Bay Harbor	6	71
California State University at Los Angeles	Metropolitan Los Angeles	6	61
California State University at Northridge	San Fernando Valley	6	46
California State University at Sacramento	Sacramento	6	68
California State University at San Diego	San Diego	6	77
California State University at San Jose	San Francisco	6	82
California, University of (Berkeley)	San Francisco	6	318
California, University of (Davis)	Sacramento	6	59
California, University of (Irvine)	Orange County	6	54
California, University of (Los Angeles)	Santa Monica Bay	6	226
California, University of (Santa Barbara)	Santa Barbara	6	92
Capitol Institute of Technology	Washington	2	17

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership</u> 1976
Carabobo, Universidad de	Venezuela	9	38
Carleton University	Ottawa	7	97
Carnegie-Mellon University	Pittsburgh	2	145
Case Western Reserve University	Cleveland	2	103
Catholic University of America	Washington	2	26
Catholic University of Louvain	Benelux	8	66
Centennial College of Applied Arts and Technology	Toronto	7	22
Central Missouri State College	Kansas City	5	22
*Central Piedmont Community College	Charlotte	3	39
Chalmers University of Technology	Sweden	8	27
*Chattanooga State Technical Institute	Chattanooga	3	13
Chile, Universidad Catolica de	Chile	9	2
Christian Brothers College	Memphis	3	28
Cincinnati, University of	Cincinnati	2	116
Citadel, The	Coastal South Carolina	3	101
Clarkson College of Technology	Mohawk Valley	1	49
Clemson University	Piedmont	3	82
Cleveland State University	Cleveland	2	66
*Cogswell Polytechnical College	San Francisco	6	11
Colorado State University	Denver	5	85
Colorado, University of, at Boulder	Denver	5	192
**Colorado, University of, at Colorado Springs	Denver	5	18
Colorado, University of, Denver Center	Denver	5	63
Columbia University	New York	1	50
Concepcion, Universidad de	Chile	9	6
Concordia University	Montreal	7	66
*Conestoga College of Applied Arts and Technology	Kitchener-Waterloo	7	52
Connecticut, University of	Connecticut	1	68
Cooper Union	New York	1	57
Cordoba, Universidad Nacional de	Argentina	9	0
Cornell University	New York	1	111
Dayton, University of	Dayton	2	29
*Dayton, University of, Technical Institute	Dayton	2	20
*Del Mar College	Corpus Christi	5	29
** *Delaware Technical and Community College, Kent Campus	Eastern Shore	2	6
Delaware, University of	Delaware Bay	2	49
Detroit Institute of Technology	Southeastern Michigan	4	10
Detroit, University of	Southeastern Michigan	4	44
DeVry Institute of Technology (Arizona)	Phoenix	6	63
* DeVry Institute of Technology (Georgia)	Atlanta	3	4
DeVry Institute of Technology (Illinois)	Chicago	4	35
Drexel University (Day Division)	Philadelphia	2	164
Drexel University (Evening College)	Philadelphia	2	33
Duke University	Eastern North Carolina	3	55
Ecole Nationale Superieure d'Electrotechnique et de Genie Physique	France	8	0
Ecole Nationale Superieure des Telecommunications	France	8	0
Ecole Polytechnique	Montreal	7	117
Ecole Polytechnique Federale	Switzerland	8	37
Ecole Superieure d'Ingenieurs d'Electrotechnique et d'Electronique	France	8	19
*Electronics Institute of Technology	Southeastern Michigan	4	0
Escola de Engenharia de Sao Carlos da Universidade de Sao Paulo	Sao Paulo	9	24
Escola Politecnica Universidade de Sao Paulo	Sao Paulo	9	104
*Escuela Politecnica Nacional	Ecuador	9	15
Escuela Superior de Ingenieria Mecanica y Electrica	Mexico	9	28
Escuela Superior Politecnica del Litoral	Ecuador	9	0
Escuela Tecnica Superior de Ingenieros de Telecomunicacion	Spain	8	86
Evansville, University of	Evansville-Owensboro	3	37
Fairleigh Dickinson University (Day Division)	North Jersey	2	57
*Fayetteville Technical Institute	Eastern North Carolina	3	21
Florida Atlantic University	Palm Beach	3	46
Florida Institute of Technology	Canaveral	3	44

School	Section Location	Region	Membership
			1976
Florida Technological University	Orlando	3	40
Florida, University of	Gainesville	3	89
*Foothill College	San Francisco	6	17
*Franklin Institute of Boston	Boston	1	14
*Franklin University	Columbus	2	22
Gannon College	Erie	2	41
*Gaston College	Charlotte	3	19
*Gateway Technical Institute, Racine Campus	Milwaukee	4	29
General Motors Institute	Southeastern Michigan	4	93
Genova, University of	North Italy	8	19
George Washington University	Washington	2	104
Georgia Institute of Technology	Atlanta	3	198
Gonzaga University	Spokane	6	4
*Greenville Technical Education Center	Piedmont	3	14
*Grossmont College	San Diego	6	0
Grove City College	Sharon	2	28
Hartford, University of	Connecticut	1	38
Hawaii, University of	Hawaii	6	39
Heald Engineering College	San Francisco	6	15
Helsinki, Technical University of	Finland	8	43
Hofstra University	Long Island	1	8
*Holding Technical Institute	Eastern North Carolina	3	33
Hong Kong, Chinese University of	Hong Kong	10	60
Hong Kong, University of	Hong Kong	10	76
**Hong Kong Polytechnic	Hong Kong	10	15
Houston, University of(College of Engineering)	Houston	5	117
Houston, University of(College of Technology)	Houston	5	45
Howard University	Washington	2	23
*Hudson Valley Community College	Schenectady	1	23
Idaho, University of	Spokane	6	52
Illinois Institute of Technology	Chicago	4	78
Illinois, University of (Chicago Circle)	Chicago	4	90
Illinois, University of (Urbana)	Central Illinois	4	403
Indian Institute of Technology - Bombay	India	10	29
Indian Institute of Technology - Kanpur	India	10	34
Indian Institute of Technology - New Delhi	India	10	40
Indiana Institute of Technology	Fort Wayne	4	8
Indiana State University	Evansville-Owensboro	3	19
Institut Supérieur d'Electronique du Nord	France	8	3
Iowa State University of Science & Technology	Central Iowa	4	94
Iowa, University of	Cedar Rapids	4	36
Israel Institute of Technology	Israel	8	14
John Carroll University	Cleveland	2	11
Johns Hopkins University	Baltimore	2	84
Kansas State University of Agriculture and Applied Science	Kansas City	5	49
Kansas, University of	Kansas City	5	40
Katholieke Universiteit te Leuven	Benelux	8	74
Kentucky, University of	Lexington	3	68
Korea Advanced Institute of Science	Korea	10	34
Lafayette College	Lehigh Valley	2	17
**Lake Superior State College	Northeastern Wisconsin	4	23
Lamar University	Beaumont	5	41
Laval University	Quebec	7	60
Lawrence Institute of Technology	Southeastern Michigan	4	71
Lehigh University	Lehigh Valley	2	63
LeTourneau College	Shreveport	5	19
Liege, University of	Benelux	8	18
Linköping University	Sweden	8	19
Ljubljana, University of	Yugoslavia	8	3
*Los Angeles Pierce College	San Fernando Valley	6	24
*Los Angeles Trade-Technical College	Santa Monica	6	0
Louisiana State University at Baton Rouge	Baton Rouge	3	55
Louisiana Tech University	Shreveport	5	95
Louisville, University of	Louisville	3	49
Lowell Technological Institute	Boston	1	78
Loyola Marymount University	Santa Monica Bay	6	19
Lund University-Lund Institute of Technology	Sweden	8	30
Mackenzie University	Sao Paulo	9	71
McGill University	Montreal	7	124
McMaster University	Hamilton	7	83
McNeese State University	Beaumont	5	14
Maine, University of	Maine	1	55

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership</u> <u>1976</u>
Manhattan College	New York	1	78
Manitoba, University of	Winnipeg	7	66
Marquette University	Milwaukee	4	128
Maryland, University of	Washington	2	205
Massachusetts Institute of Technology	Boston	1	317
Massachusetts, University of	Springfield	1	79
Memphis State University	Memphis	3	36
Merrimack College	Boston	1	18
Metropolitan State College	Denver	5	20
Mexico, Universidad Nacional Autonoma de	Mexico	9	7
Miami, University of	Miami	3	25
Michigan State University	Southeastern Michigan	4	76
Michigan Technological University	Northeast Michigan	4	111
Michigan, University of	Southeastern Michigan	4	184
Michigan, University of, at Dearborn	Southeastern Michigan	4	29
*Middlesex County College	Princeton	1	15
Milwaukee School of Engineering	Milwaukee	4	73
Minnesota, University of	Twin Cities	4	131
Mississippi State University	Mississippi	3	90
Mississippi, The University of	Memphis	3	23
*Missouri Institute of Technology	Kansas City	5	14
Missouri, University of (Columbia)	St. Louis	5	99
Missouri, University of (Rolla)	St. Louis	5	227
*Mohawk College of Applied Arts and Technology	Hamilton	7	22
Monmouth College	New Jersey Coast	1	23
Montana State University	Montana	6	43
Monterrey, Instituto Tecnologico y de Estudios Superiores de	Mexico	9	71
*Morris, County College of	North Jersey	1	35
Nebraska, University of (Lincoln)	Nebraska	4	78
*Nebraska, University of (Omaha)	Nebraska	4	32
Nevada, University of	Sacramento	6	51
Newfoundland, Memorial University of	Canadian Atlantic	7	9
New Brunswick, University of	New Brunswick	7	55
*New Hampshire Technical Institute	New Hampshire	1	52
New Hampshire, University of	New Hampshire	1	95
New Haven, University of	Connecticut	1	32
New Jersey Institute of Technology	North Jersey	1	154
New Mexico Highlands University	Albuquerque	6	0
New Mexico State University	El Paso	5	82
New Mexico, University of	Albuquerque	6	76
New Orleans, University of	New Orleans	3	24
New York, City College of the City University	New York	1	186
*New York City Community College	New York	1	12
*New York City Community College, Voorhees Campus	New York	1	2
New York Institute of Technology	New York	1	77
New York, Polytechnic Institute of	New York	1	303
New York, Polytechnic Institute of Long Island Center	Long Island	1	40
*New York, State University of (Alfred)	Buffalo	1	56
New York, State University of (Buffalo)	Buffalo	1	126
*New York, State University of, Agricultural and Technical Institute (Canton)	Mohawk Valley	1	39
New York, State University of (Stony Brook)	Long Island	1	76
*Niagara College of Applied Arts and Technology	Hamilton	7	61
North Carolina Agricultural and Technical State University	Central North Carolina	3	18
North Carolina State University	Eastern North Carolina	3	119
North Carolina, University of, at Charlotte	Charlotte	3	31
North Dakota State University	Twin Cities	4	42
North Dakota, University of	Twin Cities	4	41
*North Seattle Community College	Seattle	6	18
Northeastern University	Boston	1	156
*Northern Alberta Institute of Technology	Northern Canada	7	18
Northern Arizona University	Phoenix	6	16
*Northern College of Applied Arts and Technology	Toronto	7	13
Northern Illinois University	Rock River Valley	4	53
Northrop Institute of Technology	Metropolitan Los Angeles	6	21

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership</u> 1976
Northwestern State University of Louisiana	Shreveport	5	19
Northwestern University	Chicago	4	83
Norwich University	Vermont	1	14
Notre Dame, University of	South Bend	4	47
Nova Scotia Technical College	Canadian Atlantic	7	56
Oakland University	Southeastern Michigan	4	7
*Ohio Institute of Technology	Columbus	2	11
Ohio Northern University	Lima	2	47
Ohio State University	Columbus	2	178
Ohio University	Columbus	2	27
Oklahoma State University	Tulsa	5	50
Oklahoma, University of	Oklahoma City	5	43
Old Dominion University	Hampton Roads	3	54
*Oregon Institute of Technology	Portland	6	53
Oregon State University	Portland	6	113
**Osaka University	Tokyo	10	38
Ottawa, University of	Ottawa	7	54
Oulu, University of	Finland	8	22
Pacific States University	Metropolitan Los Angeles	6	2
Pacific, University of the	Sacramento	6	30
Padova, University of	North Italy	8	37
*Palm Beach Junior College	Palm Beach	3	15
Paris, Institut Supérieur d'Electrotechnique de	France	8	0
Pennsylvania State University	Central Pennsylvania	2	227
Pennsylvania State University, Capitol Campus	Susquehanna	2	76
*Pennsylvania State University, McKeesport Campus	Pittsburgh	2	14
Pennsylvania, University of	Philadelphia	2	153
*Philadelphia, Community College of	Philadelphia	2	2
Pittsburgh, University of	Pittsburgh	2	152
**Pittsburgh, University of, at Johnstown	Johnstown	2	17
Politecnico di Milano	North Italy	8	59
*Pontificia Universidad Javeriana	Colombia	9	39
*Port Arthur College	Beaumont	5	0
Portland State University	Portland	6	31
Portland, University of	Portland	6	35
Prairie View A&M University	Houston	5	75
Pratt Institute	New York	1	67
Princeton University	Princeton	1	41
Puerto Rico, University of	Puerto Rico and Virgin Islands	9	43
Purdue University	Central Indiana	4	342
Purdue University, Calumet Campus	Calumet	4	34
*Purdue University, Fort Wayne Campus	Fort Wayne	4	8
Quebec, Université du, a Trois-Rivières	St. Maurice	7	18
**Quebec, Université du, École de Supérieure	Montreal	7	25
Queen's University	Bay of Quinte	7	122
*Queensborough Community College	New York	1	68
*Radio College of Canada	Toronto	7	40
*Radio Engineering College	Nebraska	4	10
*Red River Community College	Winnipeg	7	52
Regional Engineering College	India	10	33
Rensselaer Polytechnic Institute	Schenectady	1	173
Rhode Island, University of	Providence	1	40
Rice University	Houston	5	122
Richmond College of the City University of New York	New York	1	27
Rio de Janeiro, Universidad Federal do	Rio de Janeiro	9	43
Rochester Institute of Technology	Rochester	1	105
Rochester, University of	Rochester	1	39
Rome, University of	Middle & South Italy	8	7
Rose-Hulman Institute of Technology	Central Indiana	4	58
Royal Institute of Technology	Sweden	8	26
Royal Military College of Canada	Bay of Quinte	7	30
Rutgers State University	Princeton	1	93
*Ryerson Polytechnical Institute	Toronto	7	129
*St. Clair College of Applied Arts and Technology	Southeastern Michigan	4	10
St. Joseph's College	Philadelphia	2	2

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership 1976</u>
*St. Lawrence College of Applied Arts and Technology	Bay of Quinte	7	14
*San Diego College of Engineering	San Diego	6	8
*San Diego Mesa Junior College	San Diego	6	15
San Francisco State University	San Francisco	6	17
Santa Clara, University of	San Francisco	6	57
Santander, Universidad Industrial de	Colombia	9	5
*Saskatchewan Technical Institute	Saskatchewan	7	14
Saskatchewan, University of	Saskatchewan	7	62
Savannah State College	Savannah	3	7
Seattle University	Seattle	6	9
*Seneca College of Applied Arts and Technology	Toronto	7	42
Sherbrooke, University of	Montreal	7	4
Shizuoka University, Graduate School	Tokyo	10	54
*Sinclair College	Dayton	2	17
South Alabama, University of	Alabama	3	30
South Carolina, University of	Columbia	3	41
South Dakota School of Mines and Technology	Denver	5	78
South Dakota State University	Twin Cities	4	29
South Florida, University of	Florida West Coast	3	41
Southeastern Massachusetts University	Providence	1	62
*Southern Alberta Institute of Technology	Southern Alberta	7	69
Southern California, University of	Metropolitan Los Angeles	6	218
Southern Colorado, University of	Denver	5	26
Southern Illinois University at Edwardsville	St. Louis	5	45
Southern Methodist University	Dallas	5	54
*Southern Technical Institute	Atlanta	3	64
Southern University	Baton Rouge	3	89
Southwest Missouri State University	Kansas City	5	34
*Southwestern College	San Diego	6	4
Southwestern Louisiana, University of	Lafayette	5	53
Spring Garden College	Philadelphia	2	28
Stanford University	San Francisco	6	273
*State Technical Institute at Memphis	Memphis	3	34
State University College at Buffalo	Buffalo	1	45
*Staten Island Community College	New York	1	28
Steubenville, College of	Pittsburgh	2	3
Stevens Institute of Technology	North Jersey	1	84
*Stout State University	Twin Cities	4	10
Swarthmore College	Philadelphia	2	11
Switzerland Section Student Branch	Switzerland	8	46
Syracuse University	Syracuse	1	81
*Technical Career Institute	New York	1	26
Technische Hogeschool Twente	Benelux	8	27
Tel-Aviv University	Israel	8	21
Temple University, College of Engineering Technology	Philadelphia	2	33
Tennessee A&I State University	Nashville	3	13
Tennessee Technological University	Nashville	3	37
Tennessee, University of	East Tennessee	3	158
Texas A&I University	Corpus Christi	5	28
Texas A&M University	Houston	5	260
Texas Tech University	South Plains	5	88
Texas, University of, at Arlington	Central Texas	5	76
Texas, University of, at Austin	Central Texas	5	262
Texas, University of, at El Paso	El Paso	5	59
** *Tidewater Community College, Virginia Beach Campus	Hampton Roads	3	26
**Tokyo, University of	Tokyo	10	26
Toledo, University of	Toledo	4	72
Torino, Politecnico di	North Italy	8	3
Toronto, University of	Toronto	7	203
Trenton State College	Princeton	1	28
Trieste, Universita Degli Studi di	North Italy	8	34
Tri-State College	Fort Wayne	4	10
Tucuman, Universidad Nacional de	Argentina	9	2
Tufts University	Boston	1	52
Tulane University	New Orleans	3	39
Tulsa, University of	Tulsa	5	36
Tuskegee Institute	Alabama	3	29
Union College	Schenectady	1	51

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership</u> <u>1976</u>
*Union County Technical Institute	North Jersey	1	27
*Union Technical Institute	North Jersey	1	0
United Kingdom & Republic of Ireland Section Student Branch	United Kingdom & Republic of Ireland	8	90
United States Air Force Academy	Denver	5	14
United States Coast Guard Academy	Connecticut	1	4
United States Naval Academy	Baltimore	2	21
United States Naval Postgraduate School	San Francisco	6	55
Universidad Centroamericana	Central America	9	11
Universidad de Costa Rica	Central America	9	4
Universidad de El Salvador	Central America	9	10
Universidad de Las Americas	Mexico	9	5
Universidad de Los Andes	Colombia	9	11
Universidad de San Carlos de Guatemala	Central America	9	25
Universidad Distrital Francisco Jose de Caldas	Colombia	9	51
Universidad Nacional de Colombia	Colombia	9	4
Universidad Nacional de Ingenieria	Peru	9	19
Universidad Nacional del Sur	Argentina	9	1
Universidade Estadual de Campinas	Sao Paulo	9	21
Uppsala, University of	Sweden	8	8
Utah State University	Utah	6	38
Utah, University of	Utah	6	90
*Valparaiso Technical Institute	Calumet	4	61
Valparaiso University	Calumet	4	37
Vanderbilt University	Nashville	3	42
Venezuela, Universidad Central de	Venezuela	9	9
*Vermont Technical College	Vermont	1	18
Vermont, University of	Vermont	1	26
Villanova University	Philadelphia	2	49
Virginia Military Institute	Virginia Mountain	3	23
Virginia Polytechnic Institute and State University	Virginia Mountain	3	186
Virginia, University of	Central Virginia	3	46
*Virginia Western Community College	Virginia Mountain	3	11
Walla Walla College	Richland	6	13
*Ward Technical College	Connecticut	1	8
Washington State University	Spokane	6	79
Washington University	St. Louis	5	61
Washington, University of	Seattle	6	149
Waterloo, University of	Kitchener-Waterloo	7	200
Wayne State University	Southeastern Michigan	4	84
*Wentworth Institute	Boston	1	17
*Westchester Community College	New York	1	60
**Western Kentucky University	Louisville	3	30
Western Michigan University	West Michigan	4	42
Western New England College	Springfield	1	34
Western Ontario, University of	London	7	54
West Florida, University of	Pensacola	3	8
West Pakistan University of Engineering and Technology	West Pakistan	10	0
West Virginia Institute of Technology	West Virginia	2	25
West Virginia University	Pittsburgh	2	55
Wichita State University	Wichita	5	40
Widner College	Philadelphia	2	12
Wilkes College	Lehigh Valley	2	11
Windsor, University of	Southeastern Michigan	4	40
*Wisconsin State University	Madison	4	6
Wisconsin, University of, at Madison	Madison	4	143
Wisconsin, University of, at Milwaukee	Milwaukee	4	48
Worcester Polytechnic Institute	Worcester	1	50
Wright State University	Dayton	2	35
Wyoming, University of	Denver	5	30
Yale University	Connecticut	1	24
Youngstown State University	Sharon	2	47

SECTION C

Table 1 - Group/Society Membership, December 31, 1976; 3-Year Comparison

Code No.	Group/Society Name	Students	Other Grades	1976 Total	1975 Total	1974 Total
1	Acoustics, Speech & Signal Processing	1,593	4,634	6,227	6,012	5,704
2	Broadcast, Cable and Consumer Electronics	1,288	4,850	6,138	5,437	2,202
3	Antennas & Propagation	851	3,782	4,633	4,591	4,326
4	Circuits & Systems	3,128	7,491	10,619	10,426	9,697
5	Nuclear & Plasma Sciences	508	2,165	2,673	2,804	2,601
6	Vehicular Technology	261	2,291	2,552	2,595	2,523
7	Reliability	167	2,320	2,487	2,488	2,353
8	*Consumer Electronics					3,343
9	Instrumentation & Measurement	831	4,314	5,145	4,922	4,525
10	Aerospace & Electronic Systems	979	5,852	6,831	6,668	6,436
12	Information Theory	1,067	3,755	4,822	4,928	5,046
13	Industrial Electronics & Control Instrumentation	930	4,280	5,210	4,588	3,908
14	Engineering Management	811	5,834	6,645	6,552	6,110
15	Electron Devices	1,902	6,589	8,491	8,190	7,941
16	Computer	5,563	19,410	24,973	22,798	19,763
17	Microwave Theory & Techniques	1,082	5,062	6,144	6,251	6,155
18	Engineering in Medicine & Biology	2,268	5,499	7,767	7,556	7,009
19	Communications	2,560	9,227	11,787	11,504	10,565
20	Sonics & Ultrasonics	335	1,627	1,962	1,847	1,590
21	Parts, Hybrids & Packaging	175	1,672	1,847	1,926	1,867
23	Control Systems	1,849	5,593	7,442	7,428	7,033
25	Education	260	1,938	2,198	2,087	2,047
26	Professional Communication	226	1,290	1,516	1,552	1,636
27	Electromagnetic Compatibility	118	1,500	1,618	1,612	1,566
28	Systems, Man & Cybernetics	1,329	3,934	5,263	5,394	5,127
29	Geoscience Electronics	175	1,103	1,278	1,242	1,296
31	Power Engineering	1,805	17,896	19,701	19,564	18,527
32	Electrical Insulation	111	1,321	1,432	1,475	1,412
33	Magnetics	222	1,819	2,041	2,070	2,025
34	Industry Applications	774	8,127	8,901	8,251	7,461
35	Manufacturing Technology	97	1,118	1,215	1,273	1,270
	Totals	33,265	146,293	179,558	174,031	163,064
	Students enrolled in Groups/Societies			13,996	13,220	11,262
	Other grades enrolled in Groups/Societies			94,260	93,417	86,223

*The Consumer Electronics Group merged with the Broadcasting Group in 1975.

SECTION C

TABLE 2 - GROUP/SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY GROUP AND SOCIETY - 1976

REGION 3	Total G/S Members	*Total Affiliates	ASSP 1	BCCE 2	AP 3	CAS 4	NPS 5	VT 6	R 7	IM 9	AES 10	IT 12	IECI 13	EM 14	ED 15	COMP 16	MTT 17	EMB 18	COM 19	SU 20	PHP 21	CS 23	Ed 25	PC 26	EMC 27	SMC 28	GeoS 29	PE 31	EI 32	MAG 33	IA 34	MfgT 35
Alabama	606	11	13	15	7	23	3	5	4	7	10	3	10	14	14	91	6	32	72	2	2	28	19	2	-	13	1	160	4	4	41	1
Atlanta	1464	12	58	54	72	75	12	17	7	45	56	24	38	56	34	179	57	43	124	6	9	49	21	15	19	42	8	220	11	6	102	5
Baton Rouge	176	-	7	4	1	8	3	-	-	6	2	1	7	5	8	13	2	8	12	-	-	10	7	-	-	4	2	30	-	2	34	-
Broward	302	1	6	12	4	18	2	12	5	5	8	3	5	29	15	40	6	6	19	7	11	2	3	4	2	6	2	46	2	7	10	5
Canaveral	448	3	20	17	22	18	6	6	13	10	37	21	4	19	29	73	21	11	54	9	3	9	-	3	3	3	6	24	-	1	5	1
Central North Carolina	107	1	4	5	2	7	-	3	4	2	1	4	6	10	-	23	1	-	7	-	1	5	1	1	-	1	-	5	2	-	10	2
Central Savannah River	57	-	4	2	-	7	1	-	-	1	4	-	2	1	-	6	-	7	4	2	-	4	-	1	-	3	-	4	-	-	4	-
Central Virginia	424	3	10	11	9	18	9	27	5	13	9	13	16	20	12	48	11	16	31	6	8	29	11	6	4	17	1	41	3	3	13	4
Charlotte	366	1	6	8	7	10	4	2	1	7	7	-	17	12	5	20	4	10	35	-	1	11	4	1	1	2	-	142	8	3	36	2
Chattanooga	184	1	5	6	1	3	-	1	-	1	1	-	2	4	1	7	1	2	12	-	-	4	1	1	-	3	-	112	3	1	11	1
Coastal South Carolina	99	-	2	7	2	4	4	2	-	2	3	1	4	4	3	14	1	7	5	-	1	3	4	-	2	3	-	18	-	-	3	-
Columbia	151	2	2	4	2	4	2	7	1	1	-	2	2	13	10	31	3	4	10	2	3	6	3	3	-	6	-	13	1	1	15	-
Daytona	61	-	-	1	2	2	-	-	-	2	6	1	2	4	2	7	1	1	9	-	-	2	1	2	2	1	1	9	-	-	3	-
Eastern North Carolina	877	15	39	41	24	51	11	8	6	30	37	24	24	22	32	170	28	58	74	5	4	32	9	8	2	29	5	74	1	4	21	4
East Tennessee	434	3	13	20	5	26	20	-	5	16	9	4	18	11	7	62	4	14	17	1	3	23	1	1	-	11	2	101	3	1	35	1
Evansville-Owensboro	178	-	7	9	3	16	3	1	2	6	4	2	8	7	8	22	6	6	6	-	4	7	3	2	-	4	-	27	-	2	12	1
Florida West Coast	844	6	20	35	12	39	10	11	22	20	35	20	26	36	15	106	31	29	69	4	11	29	7	6	8	14	5	163	7	5	46	3
Fort Walton	55	-	3	1	1	2	1	1	1	1	7	3	1	3	-	11	1	-	4	-	1	4	-	1	2	-	-	3	1	2	-	-
Gainesville	293	5	17	9	4	29	6	2	1	5	7	4	3	3	21	54	3	17	30	-	1	13	6	-	3	10	3	26	1	3	9	3
Hampton Roads	505	8	18	32	15	37	7	4	5	17	22	7	11	25	18	95	10	23	46	3	4	30	8	-	7	14	5	25	2	4	11	-
Huntsville	519	16	20	13	22	30	9	4	16	13	47	12	10	26	13	108	20	16	25	3	6	54	3	1	2	10	4	12	1	4	13	2
Jacksonville	121	-	3	2	3	8	2	3	-	2	-	-	3	4	1	10	2	4	6	-	-	-	1	1	-	-	1	47	2	-	16	-
Lexington	181	2	13	9	6	13	1	-	-	2	4	3	2	9	7	28	2	14	6	3	1	8	1	1	2	6	2	20	2	2	14	-
Louisville	249	3	7	10	5	19	2	5	1	5	3	2	9	11	6	29	6	20	15	1	3	9	4	-	1	11	-	31	-	1	31	2
Memphis	283	6	2	8	5	13	3	5	3	4	6	5	7	6	9	32	5	32	16	2	1	10	6	4	2	10	4	57	3	2	18	3
Miami	626	3	14	14	7	26	12	6	10	26	13	7	16	45	12	67	9	52	39	5	4	9	7	3	2	13	5	167	3	4	27	2
Middle Tennessee	53	1	-	1	1	4	2	-	-	3	6	-	1	-	3	8	1	4	2	-	-	2	1	-	-	1	-	6	-	-	7	-
Mississippi	337	3	13	11	28	13	7	4	2	5	6	8	10	9	10	44	22	9	30	3	3	13	3	4	7	6	4	51	2	3	5	2
Mobile	98	-	5	5	2	5	-	-	-	2	3	-	8	9	-	11	-	4	6	1	-	5	1	-	1	3	-	15	-	-	12	-
Nashville	343	6	13	14	5	21	6	6	-	3	9	8	10	11	8	35	5	38	18	6	7	18	3	1	-	13	4	46	4	4	26	1
New Orleans	489	2	13	17	11	16	8	6	2	14	16	7	15	17	10	45	10	20	58	2	-	21	3	5	6	4	4	119	-	1	39	-
Oak Ridge	130	5	1	2	1	5	40	-	1	4	1	1	4	5	5	17	3	6	4	-	1	3	-	-	-	2	1	16	1	2	4	-
Orlando	507	3	20	12	11	29	12	21	6	6	39	12	10	19	21	86	21	9	62	5	5	22	2	6	8	8	3	26	1	3	15	7
Palm Beach	239	-	6	14	3	13	1	4	3	3	3	4	7	13	12	39	5	6	12	2	2	5	3	2	4	4	1	48	2	3	10	5
Panama City	55	1	3	3	-	3	1	-	-	2	2	-	-	1	3	10	-	4	3	2	-	1	-	-	-	1	2	9	-	1	4	-
Pensacola	82	-	3	3	1	3	-	-	-	4	4	1	5	3	1	22	1	5	1	1	-	7	1	-	-	2	1	10	-	-	3	-
Piedmont	184	1	10	5	4	8	-	1	1	2	4	3	6	7	4	30	2	9	8	-	4	8	6	1	-	4	1	27	2	1	25	1
Richmond	293	2	6	9	7	12	3	3	3	12	11	3	14	12	4	50	5	9	18	1	-	11	3	2	4	5	3	61	2	1	16	3
Savannah	22	-	1	3	-	-	-	-	-	-	-	-	1	-	2	2	-	-	-	-	1	-	-	-	-	-	-	7	1	-	4	-
Virginia Mountain	385	2	9	16	9	18	9	5	1	6	7	6	25	16	8	55	10	11	22	-	1	27	3	3	-	7	1	54	1	4	48	3
Western North Carolina	85	2	2	7	3	4	1	1	1	1	1	2	5	2	3	7	3	1	3	1	2	1	4	1	-	3	1	11	1	3	10	-
Winston-Salem	73	-	3	5	-	4	-	1	-	1	3	2	5	4	-	11	1	8	6	3	1	-	1	4	2	-	1	5	-	-	1	1
TOTALS	12,985	130	421	476	329	664	223	184	132	317	453	223	379	527	376	1818	330	575	1000	88	109	534	165	96	96	299	84	2088	77	88	769	65

*Summary Column only; Affiliate members included in Group/Society totals for Sections

SECTION C

TABLE 2 - GROUP/SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY GROUP AND SOCIETY - 1976

REGION 4	Total																																		
Section	GS Members	Affiliates	ASSP 1	BCCE 2	AP 3	CAS 4	NPS 5	VT 6	R 7	IM 9	AES 10	IT 12	IECI 13	EM 14	ED 15	COMP 16	MTT 17	EMB 18	COM 19	SU 20	PHP 21	CS 23	Ed 25	PC 26	EMC 27	SMC 28	GeoS 29	PE 31	EI 32	MAG 33	IA 34	MfgT 35			
Arrowhead	77	-	1	1	-	4	-	3	-	2	1	-	6	2	4	3	-	1	2	-	-	5	-	-	-	1	1	31	1	-	8	-			
Calumet	354	2	18	18	4	18	5	4	-	8	10	5	20	16	10	29	7	14	14	1	2	11	7	3	-	6	4	67	3	6	44	-			
Cedar Rapids	279	3	14	8	9	20	4	5	6	8	12	4	7	12	8	32	14	23	19	3	1	18	4	3	3	5	1	26	-	-	7	3			
Central Illinois	968	10	37	25	34	78	24	7	3	18	11	23	20	25	71	191	39	38	50	11	5	41	12	5	3	42	4	108	1	3	37	2			
Central Indiana	1421	14	57	94	25	109	8	14	15	30	41	29	34	47	69	191	32	69	63	25	13	60	29	12	4	50	10	197	11	17	54	10			
Central Iowa	311	6	11	12	12	17	3	4	-	2	7	2	5	7	3	53	10	17	19	-	2	18	15	1	1	7	1	62	-	2	17	1			
Chicago	5045	54	174	308	77	289	99	143	61	126	68	78	176	244	156	747	116	225	328	69	64	128	42	33	38	107	14	663	42	46	333	46			
Fort Wayne	350	2	16	40	3	22	5	10	7	10	15	5	12	22	11	30	8	7	20	4	5	4	2	3	1	7	1	38	10	5	21	6			
Illinois Valley	134	1	3	5	1	8	1	3	-	3	4	-	7	10	3	15	1	5	6	-	1	2	4	1	2	-	-	24	2	1	22	-			
Iowa-Illinois	180	2	6	6	2	8	1	2	1	4	4	1	10	9	1	11	2	4	3	1	1	7	1	2	-	1	1	71	-	-	20	-			
Madison	613	5	29	20	11	34	9	6	5	29	12	13	14	8	19	102	12	56	27	6	2	33	14	5	2	29	4	83	1	7	18	3			
Michiana	320	4	22	19	6	22	5	5	4	7	12	16	11	12	9	43	4	13	19	1	5	26	4	1	-	15	-	18	3	4	12	2			
Milwaukee	1483	10	26	60	11	66	11	21	20	41	20	18	67	65	44	178	21	104	45	11	14	53	15	15	7	48	5	212	24	34	211	15			
Nebraska	680	9	16	17	9	35	8	10	3	12	18	10	27	45	19	89	11	33	50	3	3	24	7	6	4	18	7	164	4	1	25	2			
Northeast Michigan	183	3	1	3	3	13	4	9	1	8	3	1	10	6	12	35	4	4	5	1	2	3	3	4	3	4	-	13	6	3	19	-			
Northeastern Wisconsin	302	1	14	16	7	22	4	3	2	6	4	4	11	6	6	30	9	9	20	3	-	12	7	2	-	6	-	58	4	1	36	-			
Rock River Valley	220	1	7	3	4	19	3	5	1	8	6	1	19	11	7	21	4	6	10	6	5	15	4	5	1	4	-	22	3	4	14	2			
Siouxland	44	-	5	6	-	2	-	1	-	-	1	-	-	2	1	5	1	1	5	-	-	1	1	-	-	-	-	11	-	-	1	-			
Southeastern Michigan	2900	33	98	83	57	172	37	159	32	83	70	62	91	104	111	461	73	138	115	27	15	124	41	16	22	107	5	389	14	28	147	18			
Southern Michigan	200	1	9	8	3	12	3	4	1	4	4	4	2	4	8	64	7	15	8	3	3	6	1	1	-	5	-	11	-	2	4	4			
Southern Minnesota	345	3	8	16	3	20	3	5	2	15	4	5	28	9	20	41	1	17	8	4	4	22	7	2	1	6	-	41	4	3	41	5			
Toledo	2005	27	72	43	21	129	17	19	37	42	59	44	54	88	95	389	23	150	87	11	24	66	23	21	26	57	10	223	12	58	85	15			
Twin Cities	2005	27	72	43	21	129	17	19	37	42	59	44	54	88	95	389	23	150	87	11	24	66	23	21	26	57	10	223	12	58	85	15			
West Michigan	338	3	8	12	6	21	3	14	8	12	14	5	14	11	10	58	3	12	15	3	2	14	4	4	4	9	4	30	3	4	28	2			
TOTALS	18,752	194	652	823	308	1140	257	456	209	478	400	330	645	765	697	2818	402	961	938	193	173	693	247	145	122	534	72	2562	148	229	1204	136			

* Summary column only; Affiliates included in Group/Society totals for Sections.

SECTION C

TABLE 2- GROUP/SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY GROUP AND SOCIETY - 1976

REGION 5 Section	Total G/S Members	Total* Affil- iates	ASSP 1	BCCE 2	AP 3	CAS 4	NPS 5	VT 6	R 7	IM 9	AES 10	IT 12	IECI 13	EM 14	ED 15	COMP 16	MTT 17	EMB 18	COM 19	SU 20	PHP 21	CS 23	Ed 25	PC 26	EMC 27	SMC 28	GeoS 29	PE 31	EI 32	MAG 33	IA 34	Mfgt 35
Arkansas	227	1	4	9	3	12	2	1	3	3	2	2	19	4	4	22	2	6	9	1	2	3	3	1	-	2	1	70	3	1	33	-
Beaumont	145	-	6	3	2	10	3	2	-	2	2	3	8	3	6	16	1	6	7	1	-	10	3	1	-	3	-	31	-	-	16	-
Central Texas	1142	21	47	29	27	58	22	8	8	31	32	24	17	40	48	264	16	87	55	15	5	52	17	11	15	25	15	128	3	7	29	7
Corpus Christi	155	-	2	9	3	7	-	-	2	5	4	-	13	5	6	15	5	3	6	-	2	4	1	-	-	-	1	42	1	1	18	-
Dallas	1973	20	72	77	69	119	23	42	30	25	80	38	19	87	157	313	104	44	137	17	16	48	13	12	13	44	29	273	4	13	50	5
Denver	2573	30	79	92	97	154	51	38	20	100	94	51	55	83	133	398	76	141	146	20	22	101	37	13	32	63	43	281	8	26	107	12
El Paso	317	5	9	13	13	18	4	5	2	8	25	13	8	14	8	46	6	12	21	2	2	16	6	-	1	14	3	30	-	5	13	-
Fort Worth	572	8	16	16	16	41	10	16	1	13	48	9	7	17	16	85	14	19	36	5	4	24	5	1	3	13	3	113	1	4	15	1
Houston	2449	24	120	61	46	146	31	26	9	63	76	61	90	69	75	383	32	119	144	33	8	137	20	11	4	76	72	305	7	19	199	7
Kansas City	998	9	23	34	25	53	21	9	14	26	28	11	29	44	23	121	25	44	74	4	6	30	20	10	11	30	8	218	7	5	41	4
Lafayette	76	2	1	5	1	4	3	-	-	2	1	1	7	1	2	12	1	6	5	1	1	2	2	1	-	6	1	8	-	-	2	-
Oklahoma City	347	4	9	12	9	21	2	2	4	5	10	9	6	10	5	56	5	13	19	4	1	9	4	5	3	7	7	90	-	5	13	2
Ozark	121	-	2	3	2	9	4	-	-	-	8	-	3	1	4	14	1	9	4	1	-	14	5	1	1	4	2	22	1	1	5	-
Panhandle	59	-	1	1	2	1	-	-	-	2	1	-	6	-	1	2	2	4	1	-	-	4	1	-	-	1	2	21	1	-	5	-
Permian Basin	58	-	1	1	-	6	2	-	-	2	2	1	5	3	2	5	1	4	2	-	-	6	1	-	-	2	3	4	-	-	5	-
Saint Louis	1741	22	48	50	28	102	22	14	19	42	98	36	49	49	58	258	34	103	84	15	15	86	23	10	11	37	9	237	14	13	166	11
Shreveport	213	-	7	7	1	19	1	4	1	6	3	3	8	5	3	19	3	4	20	1	1	6	4	2	1	3	2	51	3	3	20	2
South Plains	148	3	6	5	3	12	11	-	-	3	4	2	2	3	16	17	5	8	4	3	-	11	6	-	-	7	2	15	-	1	1	1
Tulsa	410	4	21	10	4	23	5	3	1	9	8	12	12	9	3	43	2	9	11	6	1	28	6	1	1	14	15	102	2	4	44	1
West Central Texas	41	1	-	1	1	-	-	2	-	-	-	-	1	5	-	1	1	3	8	-	-	-	-	1	-	-	-	13	1	-	2	1
Wichita	298	6	13	8	5	26	4	4	3	7	11	7	5	9	10	77	11	7	14	1	3	7	3	2	3	6	2	32	-	1	16	1
TOTALS	14063	160	487	446	357	841	221	176	117	354	537	283	369	461	580	2167	347	651	807	130	89	598	180	83	99	357	220	2086	56	109	800	55

*Summary column only; Affiliate members included in Group/Society totals for Sections

SECTION C

TABLE 2 - GROUP/SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY GROUP AND SOCIETY - 1976

REGION 6	Total G/S Members	Total # Affili- ates	ASSP 1	BCCE 2	AP 3	CAS 4	NPS 5	VT 6	R 7	IM 9	AES 10	IT 12	IECI 13	EM 14	ED 15	COMP 16	MTT 17	EMB 18	COM 19	SU 20	PHP 21	CS 23	Ed 25	PC 26	EMC 27	SMC 28	GeoS 29	PE 31	EI 32	MAG 33	IA 34	MfgT 35
Alamogordo-Holloman	25	1	1	-	-	-	1	-	-	-	2	1	1	4	-	5	1	-	-	-	-	4	1	-	-	1	2	-	-	1	-	-
Alaska	208	3	8	12	17	3	3	7	-	4	6	5	4	7	5	17	7	7	30	1	2	-	4	3	3	4	5	36	-	1	7	-
Albuquerque	645	6	20	9	28	31	49	4	4	14	25	17	8	26	58	100	21	21	31	8	8	32	5	4	15	22	2	68	2	6	5	2
Antelope Valley	30	1	-	-	1	4	-	-	2	2	6	1	1	2	-	4	2	-	1	-	-	2	-	-	-	-	-	1	-	-	1	-
Boise	89	-	1	1	1	4	-	3	-	1	1	2	2	4	4	12	2	2	2	-	-	3	-	1	1	-	-	38	1	1	2	-
Buenaventura	554	5	11	14	23	36	5	6	11	22	52	21	6	34	33	97	38	17	24	6	8	21	3	5	11	19	1	9	3	12	5	1
China Lake	128	2	2	5	11	10	-	1	4	4	13	3	2	4	3	14	18	1	3	2	2	9	-	-	3	-	1	4	2	-	4	3
Foothill	739	10	23	13	12	39	13	11	16	27	49	15	20	42	29	106	27	37	34	10	13	18	10	7	13	18	13	71	4	11	33	5
Eastern Montana	32	-	-	-	-	1	1	-	1	-	1	-	1	-	1	-	1	1	1	-	-	2	-	2	-	-	3	13	-	-	4	-
Fort Huachuca	73	-	5	4	1	3	1	1	-	2	3	1	2	2	-	9	1	3	16	-	-	2	-	1	5	-	1	8	1	-	-	1
Hawaii	407	5	10	13	11	13	3	3	5	17	17	18	10	20	7	71	4	18	35	4	2	15	3	5	6	13	9	44	2	3	24	2
Idaho	74	3	3	-	2	3	10	-	3	3	1	-	5	8	3	12	1	-	-	-	-	2	1	1	-	-	-	12	-	-	4	-
Las Vegas	76	2	1	4	3	3	6	1	-	5	4	-	2	1	1	8	5	1	4	-	-	2	1	1	1	-	1	20	-	-	1	-
Los Alamos	155	14	7	1	1	7	35	1	1	4	1	4	4	1	17	34	3	6	2	1	-	5	1	2	1	6	1	4	-	1	4	-
Met. Los Angeles	1196	13	35	37	22	62	18	14	12	29	46	41	24	27	65	182	40	52	64	9	10	50	11	13	12	37	6	170	8	22	74	4
Montana	130	-	1	3	4	5	5	6	-	4	1	1	6	3	7	23	5	4	9	-	1	7	1	-	-	2	2	23	-	1	6	-
Oakland-East Bay	2006	45	59	41	38	156	93	24	12	50	30	38	53	43	128	375	54	102	71	18	9	84	12	10	13	60	16	226	13	22	144	12
Orange County	2924	41	102	67	73	182	59	30	55	78	210	87	64	113	162	564	98	108	144	37	47	132	15	25	32	76	24	145	10	46	116	23
Phoenix	1435	7	35	40	29	90	19	31	29	25	57	26	21	40	114	205	68	49	67	8	23	53	25	22	14	27	8	229	9	14	53	5
Portland	1404	16	46	40	15	79	17	14	15	48	14	16	39	36	72	190	29	62	44	11	9	39	17	11	8	31	9	382	9	5	94	3
Richland	225	2	7	5	-	11	17	4	3	6	4	2	14	11	7	29	4	7	2	8	-	15	3	-	-	6	3	45	3	1	8	-
Sacramento	783	8	21	31	11	52	13	24	7	21	15	18	29	28	24	125	15	58	50	2	6	36	11	10	4	26	7	92	2	4	37	4
San Diego	1649	32	82	40	62	87	52	12	32	46	99	76	18	60	82	310	59	62	119	20	15	59	7	10	21	50	16	86	4	27	27	9
San Fernando Valley	1631	30	64	41	79	88	20	19	44	31	141	47	28	59	56	300	118	61	60	19	30	69	9	17	25	41	13	69	8	30	34	11
San Francisco	1317	20	36	40	18	74	28	32	9	29	28	24	31	39	51	175	42	61	87	5	10	26	9	15	11	30	5	279	6	8	106	3
San Gabriel Valley	825	17	27	21	22	39	15	12	8	31	44	36	13	29	25	143	22	33	50	11	9	32	4	11	8	20	14	95	4	10	31	6
Santa Barbara	650	10	36	17	27	38	10	7	9	20	31	18	10	17	40	119	39	33	26	15	12	21	15	4	8	24	3	11	2	21	14	3
Santa Clara Valley	6899	125	241	197	184	500	98	64	121	165	270	182	92	249	770	1330	422	208	424	97	93	233	42	44	58	206	38	229	25	151	104	62
Santa Monica Bay	1787	46	87	44	51	115	25	17	26	31	131	92	13	44	111	368	91	83	121	14	24	91	14	11	17	71	9	28	5	25	20	7
Seattle	1869	19	74	59	70	117	23	21	21	47	132	32	40	81	48	261	60	105	94	34	25	67	21	14	27	37	15	211	6	7	113	7
South Bay Harbor	1705	43	42	32	63	82	26	16	36	32	148	67	19	49	106	326	115	50	134	14	19	82	10	16	21	42	8	51	4	27	62	6
Spokane	232	1	4	10	6	16	2	5	-	4	3	2	11	13	8	41	4	6	7	1	2	7	5	1	2	5	1	52	-	-	13	1
Tucson	329	4	4	6	12	24	5	6	3	12	15	9	10	9	23	43	14	30	16	4	2	11	8	2	7	10	6	32	1	1	2	2
Utah	659	10	45	25	15	37	10	6	5	15	19	17	13	12	28	135	19	55	26	10	-	26	10	1	5	20	8	72	-	1	22	2
Vandenberg	87	1	4	3	1	2	2	1	-	5	12	1	1	3	2	26	1	3	5	-	-	4	1	-	-	3	1	3	-	-	3	-
Wenatchee	26	-	-	2	-	-	-	-	-	1	-	-	-	1	-	1	-	1	-	-	-	1	-	-	-	-	-	16	1	-	2	-
TOTALS	33,003	542	1144	877	913	2013	684	403	494	835	1631	920	617	1121	2089	5761	1449	1347	1803	369	381	1262	279	269	352	907	251	2874	135	459	1179	184

* Summary column only: Affiliate members included in Group/Society totals for Sections

SECTION C

TABLE 2 - GROUP/SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY GROUP AND SOCIETY - 1976

REGION 7	Total G/S Members	Total Affiliates	ASSP 1	BCCE 2	AP 3	CAS 4	NPS 5	VT 6	R 7	IM 9	AES 10	IT 12	IECI 13	EM 14	ED 15	COMP 16	MTT 17	EMB 18	COM 19	SU 20	PHP 21	CS 23	Ed 25	PC 26	EMC 27	SMC 28	GeoS 29	PE 31	EI 32	MAG 33	IA 34	MfgT 35		
Bay of Quinte	372	1	11	10	7	28	6	3	1	12	5	14	25	10	5	44	8	11	27	5	1	25	3	3	1	7	-	42	4	8	42	4		
Canadian Atlantic	241	1	9	12	6	15	1	3	4	7	8	6	8	8	4	23	4	11	26	1	-	6	4	5	2	4	5	42	2	1	14	-		
Hamilton	613	3	23	24	10	41	9	5	5	19	12	16	26	16	20	77	22	29	34	9	6	25	15	7	2	14	4	72	6	10	50	5		
Kitchener-Waterloo	446	3	17	31	12	34	1	2	5	7	4	15	11	14	23	99	12	7	27	4	3	26	9	2	2	13	-	31	10	9	12	4		
London	262	2	9	20	3	22	3	-	3	5	5	-	18	7	6	37	2	13	21	5	-	13	2	2	-	4	--	35	4	1	20	2		
Montreal	2064	10	65	78	41	124	25	30	34	60	56	44	76	77	49	259	61	78	174	16	13	77	19	24	11	61	12	300	21	17	147	15		
New Brunswick	167	-	6	9	4	9	4	1	-	7	2	2	9	2	4	17	5	5	19	-	-	13	4	2	-	3	1	23	-	-	15	1		
Northern Canada	404	1	10	15	11	32	4	4	3	15	12	5	18	16	11	40	17	18	31	2	2	23	8	3	4	9	6	47	1	3	32	2		
Ottawa	1566	25	73	67	49	88	15	14	20	55	71	49	24	71	69	284	63	39	213	8	14	49	16	21	18	64	24	45	5	5	23	10		
Quebec	163	2	9	7	6	7	-	3	-	9	4	4	6	5	5	17	7	5	13	-	-	12	4	2	-	5	-	18	3	1	11	-		
Saint Maurice	35	-	3	5	1	3	1	-	-	1	-	-	2	-	-	3	-	3	1	1	-	2	1	1	-	-	-	4	-	-	3	-		
Saskatchewan	221	4	9	10	4	11	3	2	3	7	5	5	5	9	7	36	6	9	12	4	-	10	8	2	-	7	1	30	3	3	10	-		
Southern Alberta	403	-	21	21	2	30	5	7	1	6	7	10	22	14	15	49	11	16	30	3	-	25	4	3	1	11	7	54	-	2	26	-		
Toronto	2672	20	84	140	56	195	42	67	25	85	52	40	100	81	95	346	48	108	182	27	12	102	29	15	23	66	23	370	31	30	183	15		
Vancouver	834	3	25	39	17	36	5	18	4	21	14	7	45	22	18	106	11	40	61	9	2	36	7	5	5	24	5	154	10	7	76	5		
Victoria	90	-	2	9	1	5	2	5	-	3	2	1	6	2	1	7	-	5	5	-	-	4	1	2	-	1	3	12	-	-	10	1		
Winnipeg	480	3	18	33	17	30	3	8	4	10	13	5	24	10	11	41	16	32	32	3	2	22	5	4	4	7	7	88	4	1	24	2		
TOTALS	11,033	78*	394	530	247	710	129	172	112	329	272	223	425	364	343	1485	293	429	908	97	55	470	139	103	73	300	98	1367	104	98	698	66		

REGION 8																																		
Benelux	1844	20	79	53	63	140	41	26	29	65	56	82	49	53	155	214	75	74	118	24	19	104	35	16	14	75	11	68	14	36	44	12		
Denmark	517	2	30	17	32	40	10	9	11	22	15	15	18	12	35	53	44	18	35	9	8	15	6	5	7	18	4	12	4	2	5	6		
Egypt	237	1	10	6	10	19	2	-	1	7	5	7	8	2	18	16	12	14	11	1	1	21	2	1	1	9	-	35	8	1	12	1		
Finland	457	4	31	18	17	30	6	4	7	26	5	14	29	9	23	78	18	17	31	3	2	26	2	4	4	21	4	7	4	2	13	2		
France	1493	17	49	31	44	79	33	13	45	53	66	78	46	44	71	190	68	37	92	31	29	82	28	12	24	53	16	73	20	38	32	12		
Germany (West)	1025	31	35	21	30	79	12	15	17	29	43	43	19	30	63	151	48	34	85	19	15	57	12	6	13	41	9	53	9	24	10	3		
Greece	411	1	16	6	17	31	3	3	2	10	9	17	29	10	19	24	13	7	26	2	-	40	5	2	7	16	4	56	2	7	26	2		
Iran	285	3	6	5	7	14	3	5	5	8	7	7	14	20	5	40	4	4	25	1	-	16	3	5	3	9	-	46	2	1	16	4		
Israel	734	3	32	21	23	54	9	11	14	24	39	38	31	22	30	75	35	33	58	10	11	42	12	11	10	26	3	17	6	8	19	10		
Middle & South Italy	537	2	18	14	22	40	8	9	10	22	22	38	13	9	29	52	27	24	43	8	9	24	10	6	7	25	4	25	3	3	7	6		
North Italy	1215	6	38	17	41	93	17	12	22	54	25	53	53	23	64	169	43	71	105	18	14	73	13	13	9	42	5	50	9	16	43	10		
Norway	291	-	18	3	10	18	2	1	8	11	13	12	14	11	12	33	12	10	17	8	6	15	3	1	2	14	3	16	4	4	7	3		
Poland	59	1	-	1	2	1	-	2	2	4	1	2	2	1	3	7	2	-	1	1	3	6	3	-	-	-	-	8	3	2	1	1		
Spain	1295	2	45	28	32	99	12	13	23	68	34	60	65	28	63	138	46	60	83	15	13	78	38	14	13	61	9	49	14	30	51	13		
Sweden	1306	5	67	24	30	80	22	25	36	74	59	67	41	23	71	124	55	62	75	18	25	64	26	18	26	60	11	49	18	19	26	11		
Switzerland	1148	5	51	37	22	95	18	16	25	53	35	54	46	23	61	136	40	42	86	18	20	56	23	10	14	32	6	65	16	15	25	8		
United Kingdom & Republic of Ireland	1494	23	61	47	40	102	22	23	32	44	28	46	47	44	78	167	75	38	99	32	21	53	20	26	11	54	7	168	19	25	56	9		
Yugoslav	187	-	3	6	3	16	4	1	8	7	2	4	10	5	13	21	5	6	12	1	4	17	6	-	2	10	-	7	2	4	5	3		
TOTALS	14,535	126*	589	355	445	1030	224	188	297	581	464	637	534	369	813	1688	622	551	1002	219	200	789	247	150	167	566	96	804	157	237	398	116		
Members not assigned to Sections	1,114	6*	41	37	41	76	14	10	14	47	31	46	42	35	50	98	52	35	85	12	10	63	32	10	8	38	8	107	13	12	40	7		
	15,649	132*	630	392	486	1106	238	198	311	628	495	683	576	404	863	1786	674	586	1087	231	210	852	279	160	175	604	104	911	170	249	438	123		

* Summary figures only; Affiliates are included in Group/Society totals.

SECTION C

TABLE 2 - GROUP/SOCIETY MEMBERSHIP, BY REGION, BY SECTION, BY GROUP AND SOCIETY - 1976

REGION 9	Total GS Members	Total * Affiliates																																
			ASSP 1	BCCE 2	AP 3	CAS 4	NPS 5	VT 6	R 7	IM 9	AES 10	IT 12	IECI 13	EM 14	ED 15	COMP 16	MTT 17	EMB 18	COM 19	SU 20	PHP 21	CS 23	Ed 25	PC 26	EMC 27	SMC 28	GeoS 29	PE 31	EI 32	MAG 33	IA 34	MfgT 35		
Argentina	297	-	6	14	6	27	4	2	4	18	8	11	26	4	14	30	7	17	15	4	2	14	5	3	3	6	1	23	3	2	15	3		
Bahia	222	-	2	3	7	8	2	1	1	7	1	4	9	4	4	10	10	3	16	1	-	5	1	2	1	1	1	60	5	2	51	-		
Central America	333	1	3	10	5	13	2	1	1	13	2	6	16	16	8	26	11	12	17	3	1	15	10	4	1	6	2	71	4	2	50	2		
Chile	315	1	6	12	8	23	4	2	2	11	4	5	29	7	12	26	9	24	14	2	1	24	4	-	-	13	3	38	3	-	29	-		
Columbia	580	1	8	15	15	36	3	3	2	18	11	6	32	16	25	60	22	54	38	6	-	26	9	4	1	32	7	80	2	4	41	4		
Ecuador	233	-	6	12	6	10	1	2	3	6	2	2	14	8	9	15	6	7	9	1	2	11	5	4	3	4	1	43	8	4	25	4		
Mexico	1348	4	41	53	27	81	11	14	10	61	17	20	79	73	42	95	28	69	73	23	14	85	33	16	7	53	14	154	29	14	93	19		
Monterrey	372	1	5	12	6	16	2	1	1	15	8	4	34	15	12	31	7	17	17	3	2	29	13	3	-	14	-	41	4	2	50	8		
Panama	146	1	2	9	1	9	1	2	-	4	-	-	11	5	5	8	4	6	7	1	-	9	-	5	-	1	1	30	-	-	25	-		
Peru	539	-	10	28	16	39	1	3	3	19	11	15	38	21	17	40	19	14	46	3	-	28	6	5	1	15	3	73	7	6	50	2		
Puerto Rico & Virgin Islands	248	1	6	17	3	14	6	4	-	4	5	2	5	13	7	20	6	8	23	1	-	7	8	1	-	1	2	60	6	-	15	4		
Rio de Janeiro	640	2	17	12	11	35	4	5	9	17	9	13	19	16	8	63	7	11	37	4	4	34	11	5	3	20	6	209	8	2	37	4		
Sao Paulo	1376	21	36	42	39	79	12	9	11	48	26	31	75	54	51	135	54	64	115	4	4	71	14	9	9	38	2	209	21	5	97	12		
Venezuelian	802	-	17	30	26	34	9	9	5	56	10	13	66	24	30	52	27	25	49	5	4	35	14	11	1	19	4	118	12	4	83	10		
SECTION TOTALS	7,451	33*	165	269	176	424	62	58	52	297	114	132	453	276	244	611	217	331	476	61	34	393	133	72	30	223	47	1209	112	47	661	72		
Members not assigned to Sections	333	-	8	15	10	20	2	2	2	9	5	6	15	25	4	30	8	13	23	2	1	20	7	4	1	1	-	72	4	3	20	1		
TOTAL Region 9	7,784	33	173	284	186	444	64	60	54	306	119	138	468	301	248	641	225	344	499	63	35	413	140	76	31	224	47	1281	116	50	681	73		

REGION 10																																
Australian	1649	12	66	65	60	130	15	18	22	56	31	56	82	39	55	209	67	53	120	14	9	119	41	11	8	58	9	140	15	6	66	9
Bangalore	273	-	6	9	6	11	4	3	2	11	8	6	14	9	16	17	15	6	12	6	4	15	5	2	2	9	1	40	4	3	24	3
Bombay	373	-	4	11	3	20	5	3	5	14	5	5	38	16	17	33	13	7	9	4	9	15	5	3	2	10	1	67	4	4	34	7
Delhi	446	-	16	12	18	30	5	1	9	14	13	10	15	8	24	42	25	9	18	1	3	43	3	-	5	16	-	63	3	4	30	6
Hong Kong	799	3	13	64	15	73	7	3	5	17	13	13	32	45	44	159	19	13	65	2	4	29	7	2	-	8	1	96	5	2	30	13
Korea	827	1	41	27	24	74	22	9	16	38	20	46	22	15	58	87	32	28	63	19	14	40	10	12	8	21	8	20	9	11	25	8
New Zealand	140	-	8	2	7	7	2	2	1	1	2	3	10	1	2	28	2	7	5	4	-	3	3	-	-	6	3	14	1	-	14	2
Pakistan	43	-	-	3	2	2	-	1	-	1	-	-	3	2	1	2	2	-	5	-	-	2	-	1	-	-	-	12	-	-	2	2
Republic of China	622	1	22	31	14	41	2	3	5	26	8	21	17	20	79	118	21	18	60	3	4	33	6	-	3	15	2	19	2	4	18	7
Republic of the Philippines	62	-	2	4	4	3	-	2	-	4	-	-	1	6	2	3	2	-	9	-	1	-	2	1	-	-	1	9	1	-	2	3
Tokyo	5426	17	162	147	202	347	87	89	116	165	117	235	143	99	453	514	363	144	363	120	146	238	74	48	74	210	48	226	120	187	131	58
SECTION TOTALS	10,660	34	340	375	355	738	149	134	181	347	217	395	377	260	751	1212	561	285	729	173	194	537	156	80	102	353	74	706	164	221	376	118
Members not assigned to Sections	855	5	13	41	23	53	4	13	4	34	18	21	50	66	28	66	25	22	78	9	5	43	14	11	3	14	9	109	8	7	51	13
U.S. Military	396	4	18	11	17	21	7	1	3	4	39	11	3	29	7	67	11	11	54	1	1	15	6	9	4	7	3	25	1	2	7	1
TOTAL, Region 10	11,911	43*	371	427	395	812	160	148	188	385	274	427	430	355	786	1345	597	318	861	183	200	595	176	100	109	374	86	840	173	230	434	132

* Summary column only; Affiliate totals included in Group/Society totals for Sections.

SECTION CTABLE 3 - IEEE GROUP/SOCIETY CHAPTER ACTIONS IN 1976

<u>Region/Section</u>	<u>New Chapters</u>	<u>Change in Status of Existing Chapters</u>	<u>Dissolved</u>
<u>REGION 1</u>			
Binghamton			PE-31
Connecticut			Ap-3/MTT-17
Princeton	ED-15/Mtt-17 COMP-16		
<u>REGION 2</u>			
Baltimore			EM-14
Delaware Bay	COMP-16		
Pittsburgh		CS-23 and SMC-28 merged to form Joint CS/SMC Chapter	
<u>REGION 3</u>			
Broward	PE-31		
Huntsville	COMP-16		
<u>REGION 4</u>			
Central Indiana	EMB-18		
Chicago			EI-32
Milwaukee			IM-9/IECI-13
Nebraska	EM-14		
Southeastern Michigan		IT-12/CS-23 expanded to include ASSP-1 and CAS-4 and form a Joint ASSP/CAS/IT/CS Chapter	
<u>REGION 6</u>			
Albuquerque	AP-3/MTT-17/EMC-27		
Los Angeles Council	EM-14/Ed-25/PC-26		
Oakland-East Bay	ASSP-1 COMP-16 EMB-18 PE-31		
San Francisco	COM-19		
Tucson	PE-31		
<u>REGION 7</u>			
Hamilton	Ed-25		
Toronto	BCCE-2	Joint VT-6/COM-19 Chapter divided to form single VT-6 and COM-19 Chapters	
<u>REGION 8</u>			
France	PE-31		
Germany (West)	COM-19		
<u>REGION 10</u>			
All-India Council	AES-10/COM-19		

SECTION C

TABLE 4 - IEEE GROUP/SOCIETY CHAPTERS - As of 12/31/76

<u>Code</u>	<u>Group/Society Name</u>	<u>No. of Chapters</u>	<u>Section/Council Location</u>		
AES-10	Aerospace & Electronic Systems	24	Baltimore Central New England Council Cleveland Dayton Denver Fort Wayne Fort Worth Long Island	Los Angeles Council Mohawk Valley New Jersey Coast N. Y. /No. Jersey Orlando Ottawa Philadelphia Rochester St. Louis	San Diego Santa Clara Valley/ San Francisco/ Oakland-East Bay Seattle Southeastern Mich. Syracuse Vancouver NCA Council*
AP-3	Antennas & Propagation	28	Albuquerque Atlanta Baltimore Central New England Council Chicago Columbus Dallas Dayton Denver Houston	Huntsville Israel Long Island/N. Y. Los Angeles Council Montreal North Jersey Orange County Philadelphia Phoenix St. Louis San Diego	Santa Clara Valley/ San Francisco/ Oakland-East Bay Southeastern Mich. Seattle Syracuse Tokyo Vancouver NCA Council*
ASSP-1	Acoustics, Speech & Signal Processing	10	Chicago Cleveland Kitchener-Waterloo Ottawa	Philadelphia Shreveport Santa Clara Valley/ San Francisco/ Oakland-East Bay	Southeastern Mich. Switzerland
BCCE-2	Broadcast, Cable & Consumer Electronics	7	Cleveland Chicago Florida West Coast	Philadelphia NCA Council* Tokyo	Toronto
CAS-4	Circuits & Systems	24	Canton Central Illinois Central New England Council Chicago Cleveland Dallas Fort Wayne Hamilton	Houston Kitchener-Waterloo Los Angeles Council Ottawa Philadelphia Phoenix Portland Princeton Sacramento	Seattle Syracuse Santa Clara Valley/ San Francisco/ Oakland-East Bay Southeastern Mich. Tokyo Twin Cities United Kingdom & Republic of Ireland
COM-19	Communications	52	Alabama All-India Council Atlanta Baltimore Canton Central Illinois Central New England Council Charlotte Chattanooga Chicago Columbus Dallas Denver Eastern N. C. / Central N. C. / Winston-Salem Florida West Coast Fort Huachuca	Fort Wayne Germany (West) Hamilton Houston Kansas City Long Island Los Angeles Council Maine Mexico Miami Mohawk Valley Montreal New Jersey Coast New Orleans New York North Jersey Orlando Ottawa Philadelphia	Pittsburgh Phoenix Rochester Sacramento San Diego Santa Clara Valley/ Oakland-East Bay San Francisco Seattle Shreveport Southeastern Mich. Switzerland Syracuse Tokyo Toronto Twin Cities Vancouver NCA Council*

*NCA Council = National Capital Area Council

Code	Group/Society Name	No. of Chapters	Section/Council Location		
CS-23	Control Systems	27	Baltimore	Fort Worth	Sacramento
			Buffalo	Hamilton	San Diego
			Central New Eng- land Council	Huntsville	Santa Clara Valley/ San Francisco/
			Chicago	Long Island/N. Y.	Oakland-East Bay
			Cleveland	Los Angeles Council	Schenectady
			Columbus	Milwaukee	Southeastern Mich.
			Dallas	North Jersey	Toledo
			Dayton	Philadelphia	Vancouver
			Denver	Phoenix	Wichita
			Denver	Pittsburgh	
COMP-16	Computer	62	Akron	Hamilton	Princeton
			Alabama	Houston	Republic of China
			Arkansas	Huntsville	Richland
			Baltimore	Long Island	Rochester
			Binghamton	Los Angeles Council	Sacramento
			Canaveral	Milwaukee	St. Louis
			Central Indiana	Mohawk Valley	San Diego
			Cent. N. E. Council	Montreal	Santa Clara Valley/ San Francisco
			Central Texas	Nebraska	Schenectady
			Chicago	New Jersey Coast	Seattle
			Cleveland	New Orleans	Southeastern Mich.
			Columbus	New York	Switzerland
			Connecticut	North Jersey	Syracuse
			Dallas	Oakland-East Bay	Tokyo
			Dayton	Oklahoma City	Toledo
			Delaware Bay	Orange County	Twin Cities
			Denver	Orlando	Utah
			Florida West Coast	Philadelphia	Vancouver
			Fort Huachuca	Phoenix	NCA Council*
			Fort Worth	Pittsburgh	Wichita
France	Portland				
Ed-25	Education	6	Central New Eng- land Council	Santa Clara Valley/ San Francisco/ Oakland-East Bay	United Kingdom & Republic of Ireland
			Hamilton		Utah
			Los Angeles Council		
Ei-32	Electrical Insulation	2	Montreal/Ottawa	Tokyo	
EMC-27	Electromagnetic Compatibility	16	Albuquerque	Denver	Santa Clara Valley/ San Francisco/
			Atlanta	Los Angeles Council	Oakland-East Bay
			Baltimore	Mohawk Valley	Seattle
			Central New Eng- land Council	New Jersey Coast	Tucson
			Central Texas	Philadelphia	NCA Council*
			Chicago	Phoenix	
ED-15	Electron Devices	27	Albuquerque	Los Angeles Council	St. Louis
			Central Illinois	Milwaukee	Santa Clara Valley/ San Francisco/
			Central New Eng- land Council	New Jersey Coast	Oakland-East Bay
			Dayton	N. Y. /L. I. /No. Jersey	Schenectady
			Houston	Ottawa	Southeastern Mich.
			India	Philadelphia	Syracuse
			Israel	Phoenix	Tokyo
			Kitchener-Waterloo	Pittsburgh	Twin Cities
			Lehigh Valley	Portland	NCA Council*
			Lehigh Valley	Princeton	
EM-14	Engineering Management	22	Buenaventura	Dayton	Ottawa
			Buffalo	Denver	Philadelphia
			Canaveral	Huntsville	Rochester
			Central Indiana	Los Angeles Council	Santa Clara Valley/ San Francisco/
			Central New Eng- land Council	Mexico	Oakland-East Bay
			Chicago	Mohawk Valley	Southeastern Mich.
			Dallas	Nebraska	NCA Council*
			Dallas	North Jersey	
			Dallas		

*NCA Council = National Capital Area Council

Code	Group/Society Name	No. of Chapters	Section/Council Location		
EMB-18	Engineering in Medicine & Biology	35	Central Indiana	Denver	Portland
			Central New England Council	Houston	Princeton
			Central Texas - (Austin)	Los Angeles Council	Rochester
			Central Texas - (San Antonio)	Memphis	St. Louis
			Chicago	Miami	Santa Clara Valley/ San Francisco
			Cincinnati	Milwaukee	Oakland-East Bay
			Cleveland	Montreal	Seattle
			Connecticut	Nashville	Southeastern Mich.
			Dallas	Nebraska	Tokyo
			Dayton	New Jersey Coast	Twin Cities
				N. Y. /Long Island	Utah
				North Jersey	NCA Council*
				Philadelphia	
GeoS-29	Geoscience Electronics	2	North Jersey	NCA Council*	
IECI-13	Industrial Electronics & Control Instrumentation	10	Arkansas	India	Toledo
			Beaumont	Los Angeles Council	Vancouver
			Chicago	Santa Clara Valley/ San Francisco/	
			Connecticut	Oakland-East Bay	
IA-34	Industry Applications	48	Akron	Eastern N. C.	Rochester
			Alabama	Hamilton	Sacramento
			Arkansas	Houston	St. Louis
			Atlanta	Los Angeles Council	Santa Clara Valley/ San Francisco/
			Baltimore	Maine	Schenectady
			Baton Rouge	Mexico	Seattle
			Buffalo	Middle Tennessee	Southeastern Mich.
			Central Illinois	Milwaukee	Syracuse
			Central New England Council	Montreal	Tokyo
			Chicago	N. Y. /Long Island	Toledo
			Cincinnati	New Zealand	Toronto
			Cleveland	Oakland East-Bay	Twin Cities
			Connecticut	Orlando	Vancouver
			Dayton	Philadelphia	Virginia Mountain
			Delaware Bay	Phoenix	Wichita
			Denver	Pittsburgh	
				Portland	
IT-12	Information Theory	15	Buffalo	Denver	Philadelphia
			Central New England Council	Chicago/Central Ill. / Central Indiana/	Phoenix
			Central N. C. / Eastern N. C. / Winston-Salem	Michiana	Santa Clara Valley/ San Francisco/ Oakland-East Bay
			Dallas	Hamilton	Southeastern Mich.
				Los Angeles Council	Syracuse
				N. Y. /L. I. /No. Jersey	NCA Council*
IM-9	Instrumentation & Measurement	16	Central Illinois	Los Angeles Council	Southeastern Mich.
			Central New England Council	Montreal	Santa Clara Valley/ San Francisco/
			Chicago	N. Y. /L. I. /No. Jersey	Oakland-East Bay
			Cleveland	Ottawa	Tokyo
			Denver	Portland	Toronto
				Shreveport	NCA Council*
MfgT-35	Manufacturing Technology	3	Central New England Council	Los Angeles Council	Philadelphia
MAG-33	Magnetics	8	Central New England Council	Milwaukee	Santa Clara Valley / San Francisco/
			Houston	Philadelphia	Oakland-East Bay
			Los Angeles Council	Princeton	Twin Cities

*NCA Council = National Capital Area Council

Code	Group/Society Name	No. of Chapters	Section/Council Location	Code	
MTT-17	Microwave Theory & Techniques Rochester St. Louis Santa Clara Valley/ San Francisco Oakland-East Bay Seattle Southeastern Mich. Tokyo Twin Cities Utah NCA Council*	36	Albuquerque Atlanta Los Angeles Council Memphis Miami Milwaukee Montreal New Jersey Coast North Jersey Orange County Orlando Ottawa Philadelphia Phoenix Huntsville	EMR-18 Princeton St. Louis San Diego Santa Clara Valley/ San Francisco/ Oakland-East Bay Schenectady Seattle Southeastern Mich. Syracuse Tokyo NCA Council*	
NPS-5	Nuclear & Plasma Sciences Tolene Vancouver	2	Central Illinois Central New England Los Angeles Council Chicago New Jersey Coast N.Y. / L.I. / No. Jersey Philadelphia Portland Lehigh Valley	Santa Clara Valley/ San Francisco/ Oakland-East Bay NCA Council Oakland-East Bay Tokyo NCA Council*	
PHP-21	Parts, Hybrids & Packaging Rochester Sacramento St. Louis	12	San Francisco Oakland-East Bay Chicago Dayton Lehigh Valley	Santa Clara Valley/ San Francisco/ Oakland-East Bay Tokyo NCA Council*	
PC-26	Professional Communication	2	United Kingdom & Republic of Ireland	Los Angeles Council	
PE-31	Power Engineering Seattle Southeastern Mich. Syracuse Tokyo Toledo Toronto Twin Cities Vancouver Virginia Mountain Wichita	97	Akron Alabama Albuquerque Argentina Arkansas Atlanta Baltimore Beaumont Berkshire Broward Buffalo Canaveral Canton Chicago Central Illinois Central Indiana Central Michigan Central New England Central Texas Charlotte Chattanooga Chicago Cincinnati Cleveland Columbus Connecticut Corpus Christi Dallas Dayton Delaware Denver Eastern N.C. East Tennessee Erie	Florida West Coast Foothill Fort Worth France Hamilton Houston India Jacksonville Kansas City Las Vegas Lehigh Valley Los Angeles Council Maine Memphis Mexico Monterrey Miami Mid-Hudson Middle Tennessee Milwaukee/Madison Montreal Nashville Nebraska New Hampshire New Orleans N.Y. / L. I. North Jersey Northeastern Wisc. Oakland-East Bay Oklahoma City Orlando Ottawa Palm Beach	Philadelphia Phoenix Pittsburgh Portland Princeton Puerto Rico & Virgin Islands Rochester Sacramento St. Louis San Diego Santa Clara Valley/ San Francisco Schenectady Seattle Sharon Shreveport Southeastern Mich. Spokane Syracuse Tokyo Toledo Toronto Tucson Tulsa Twin Cities Utah Vancouver Virginia Mountain Wichita Winnipeg Worcester County

<u>Code</u>	<u>Group/Society Name</u>	<u>No. of Chapters</u>	<u>Section/Council Location</u>		
R-7	Reliability	20	Baltimore Binghamton Canaveral/Daytona Central New Eng- land Council Cleveland Chicago Connecticut	Florida West Coast Los Angeles Council Mohawk Valley Montreal New Jersey Coast N. Y. /L. I. North Jersey Philadelphia	Rochester Santa Clara Valley/ San Francisco/ Oakland-East Bay Syracuse Twin Cities NCA Council*
SU-20	Sonics & Ultrasonics	2	Central New England Council		
SMC-28	Systems, Man & Cybernetics	18	Central New Eng- land Council Cleveland Connecticut Dallas L. I. /N. Y. Los Angeles Council	Mexico Milwaukee New Jersey Coast North Jersey Philadelphia Pittsburgh Schenectady	Portland Santa Clara Valley/ San Francisco/ Oakland-East Bay Southeastern Mich. Tokyo Twin Cities NCA Council*
VT-6	Vehicular Technology	22	Canton Central New Eng- land Council Chicago Cincinnati/Dayton Cleveland Columbus Dallas	Florida West Coast Los Angeles Council Miami Montreal Nebraska N. Y. /L. I. /No. Jersey Orlando Philadelphia	Pittsburgh Sacramento Santa Clara Valley/ San Francisco/ Oakland-East Bay Southeastern Mich. Toronto Vancouver NCA Council*
31	Groups/Societies	662 **	120 Sections/Councils		

**Of this number, 133 Chapters are operated jointly by more than one Section/Council or more than one Group or Society. A total of 527 single or Joint Group/Society Chapters have been established as of 12/31/76.

*NCA Council = National Capital Area Council

SECTION D

Table 1 - Group/Society Affiliates, December 31, 1976; 5-Year Comparison

Code No.	Group/Society Name	12/31/76	12/31/75	12/31/74	12/31/73	12/31/72
1	Acoustics, Speech & Signal Processing	5	3	2	3	3
2	Broadcast, Cable & Consumer Electronics	2	1	-	-	-
3	Antennas & Propagation	1	1	-	-	-
4	Circuits & Systems	4	2	1	2	1
5	Nuclear & Plasma Sciences	160	151	115	121	115
6	Vehicular Technology	3	3	4	4	4
7	Reliability	10	10	11	13	11
8	*Consumer Electronics	-	-	1	-	-
9	Instrumentation & Measurement	1	-	-	-	-
10	Aerospace & Electronic Systems	6	7	6	4	5
12	Information Theory	6	7	6	6	8
13	Industrial Electronics & Control Instrumentation	-	-	-	-	-
14	Engineering Management	48	27	24	31	33
15	Electron Devices	35	37	43	62	67
16	Computer	1,566	1,184	797	519	331
17	Microwave Theory & Techniques	11	10	7	6	6
18	Engineering in Medicine & Biology	91	97	95	116	133
19	Communications	6	2	4	1	-
20	Sonics & Ultrasonics	14	15	18	8	10
21	Parts, Hybrids & Packaging	3	2	1	-	-
23	Control Systems	4	4	3	3	3
25	Education	1	2	1	1	-
26	Professional Communication	6	6	9	8	8
27	Electromagnetic Compatibility	5	3	1	1	1
28	Systems, Man & Cybernetics	19	18	25	25	28
29	Goescience Electronics	2	1	1	2	3
31	Power Engineering	-	-	-	-	-
32	Electrical Insulation	8	10	9	8	8
33	Magnetics	68	75	80	88	103
34	Industry Applications	1	1	-	-	-
35	Manufacturing Technology	-	-	-	-	-
	Totals	2,086	1,679	1,264	1,032	881

*The Consumer Electronics Group merged with the Broadcasting Group in 1975.

SECTION E

ORGANIZATIONAL UNITS OF THE IEEE, BY REGION - As of December 31, 1976

<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>1976</u>											
Sections	22	25	42	23	21	36	17	18	14	11	229
Subsections	6	3	7	6	6	5	1	-	7	5	46
Chapters	106	87	52	59	57	99	31	8	8	20	527 *
Affiliations & Councils	1	1	2	-	-	2	3	-	2	1	12
Student Branches	72	52	55	48	44	58	38	33	31	12	443
<hr/>											
<u>1975</u>											
Sections	22	24	42	23	21	36	17	18	14	8	225
Subsections	6	4	7	6	6	5	1	-	5	7	47
Chapters	106	88	50	60	57	90	28	6	8	19	512 *
Affiliations & Councils	1	-	2	-	-	2	3	-	2	-	10
Student Branches	71	50	53	47	43	58	37	31	37	9	436
<hr/>											
<u>1974</u>											
Sections	23	24	41	23	21	33	18	18	13	8	222
Subsections	6	4	7	6	6	10	-	-	4	6	49
Chapters	107	88	46	58	56	94	28	6	8	17	508 *
Affiliations & Councils	1	-	2	-	-	1	3	-	1	-	8
Student Branches	75	50	52	47	45	57	40	33	36	8	443
<hr/>											
<u>1973</u>											
Sections	23	24	41	23	21	32	18	18	11	6	217
Subsections	7	4	8	5	7	12	-	-	2	4	49
Chapters	107	89	48	61	56	93	30	6	6	13	509 *
Affiliations & Councils	1	-	2	-	-	1	3	-	1	-	8
Student Branches	75	51	47	47	46	57	39	31	31	4	428

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

SECTION F

Table 1 - IEEE Technical Publications Output - 1976

Regular Journals	Editorial Pages	Advertising Pages (1)	Total Pages	Number of Papers	Number of Letters
IEEE SPECTRUM	927	449	1,376	105	123
PROCEEDINGS OF THE IEEE	1,772	36	1,808	144	146
IEEE TRANSACTIONS & JOURNALS	24,742	---	24,742	2,895	866
Subtotals	27,441	485	27,926	3,144	1,135
<u>Other Publications</u>					
Conference Records (2)	3,372	---	3,372	561	---
IEEE PRESS Books	6,016	---	6,016	590	---
Preprints	4,036	---	4,036	473	---
Standards	2,093	---	2,093	28	---
Subtotals	15,517	---	15,517	1,652	---
<u>Totals</u>	<u>42,958</u>	<u>485</u>	<u>43,443</u>	<u>4,796</u>	<u>1,135</u>

(1) Includes Institute-related advertising material.

(2) Produced through IEEE Editorial Department.

Table 2 - IEEE TRANSACTIONS and JOURNALS - 1976

	Number of Issues	Editorial Pages	Number of Papers	Number of Letters
ACOUSTICS, SPEECH, & SIGNAL PROCESSING	6	624	56	37
AEROSPACE & ELECTRONIC SYSTEMS	6	872	78	51
ANTENNAS & PROPAGATION	6	952	115	50
AUTOMATIC CONTROL	6	928	116	138
BIOMEDICAL ENGINEERING	6	520	59	25
BROADCASTING	4	144	18	2
CABLE TELEVISION	1	80	7	--
CIRCUITS AND SYSTEMS	12	888	94	40
COMMUNICATIONS	12	1,424	174	45
COMPUTERS	12	1,420	127	67
CONSUMER ELECTRONICS	4	424	43	--
EDUCATION	4	192	29	14
ELECTRICAL INSULATION	4	204	30	--
ELECTROMAGNETIC COMPATIBILITY	4	232	32	5
ELECTRON DEVICES	12	1,428	177	65
ENGINEERING MANAGEMENT	4	196	21	1
GEOSCIENCE ELECTRONICS	4	292	32	2
INDUSTRIAL ELECTRONICS & CONTROL INSTRUMENTATION	4	492	75	20
INDUSTRY APPLICATIONS	6	684	85	--
INFORMATION THEORY	6	828	62	72
INSTRUMENTATION & MEASUREMENT	4	600	113	9
MAGNETICS	6	1,108	125	10
MANUFACTURING TECHNOLOGY	4	104	19	--
MICROWAVE THEORY & TECHNIQUES	12	1,068	174	35
NUCLEAR SCIENCE	6	2,108	241	--
OCEANIC ENGINEERING	2	80	8	1
PARTS, HYBRIDS & PACKAGING	4	416	62	2
PLASMA SCIENCE	4	324	41	2
POWER APPARATUS & SYSTEMS	6	2,000	214	--
PROFESSIONAL COMMUNICATION	2*	24	4	--
QUANTUM ELECTRONICS	12	848	96	66
RELIABILITY	5	380	82	11
SOFTWARE ENGINEERING	4	348	34	4
SOLID STATE CIRCUITS	6	900	111	27
SONICS & ULTRASONICS	6	446	49	--
SYSTEMS, MAN & CYBERNETICS	12	952	66	65
VEHICULAR TECHNOLOGY	4	212	26	--
<u>Totals</u>	<u>222</u>	<u>24,742</u>	<u>2,895</u>	<u>866</u>

*Estimated: Final issue not published at time of report.