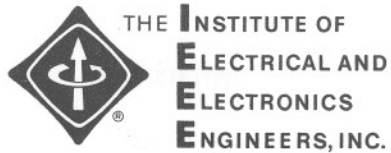


**ANNUAL REPORT
OF THE
SECRETARY AND TREASURER**

=====**1980**=====



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



345 EAST 47th STREET, NEW YORK, NEW YORK 10017

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 and Treasurer for 1980 is presented herewith. It contains information on:

- IEEE Membership Statistics
- Student Branch Membership Statistics
- Society/Group Membership and Chapter Statistics
- Society/Group Affiliate Statistics
- Organizational Units of the IEEE by Region
- Publication Statistics
- Financial Report

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,

Bruno O. Weinschel, Secretary, 1980

Donald S. Brereton, Treasurer, 1980

April 1981

CONTENTS

<u>SECTION A - IEEE MEMBERSHIP STATISTICS</u>	Page
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, 1963-1980	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	14
Table 10 - Membership in Region 9 by Country, by Grade; 3-Year Comparison	15
Table 11 - Membership in Region 10 by Country, by Grade; 3-Year Comparison	16
Table 12 - Section and Subsection Actions	17
<u>SECTION B - STUDENT BRANCH MEMBERSHIP STATISTICS</u>	
Table 1 - Student Branches and Student Branch Membership	18
<u>SECTION C - SOCIETY/GROUP MEMBERSHIP AND CHAPTER STATISTICS</u>	
Table 1 - Society/Group Membership by Society/Group, by Grade; 3-Year Comparison	25
Table 2 - Society/Group Membership by Society/Group, Region, Section	26
Table 3 - Society/Group Chapter Actions	32
Table 4 - Society/Group Chapters	33
<u>SECTION D - SOCIETY/GROUP AFFILIATE STATISTICS</u>	
Table 1 - Society/Group Affiliates by Society/Group; 5-Year Comparison	41
<u>SECTION E - ORGANIZATIONAL UNITS OF THE IEEE BY REGION</u>	42
<u>SECTION F - PUBLICATION STATISTICS</u>	
Table 1 - IEEE Technical Publications Output	43
Table 2 - IEEE Transactions and Journals	43
Table 3 - Nonmember Subscriptions to IEEE Periodicals	44
Table 4 - Microfiche Subscriptions	45
<u>SECTION G - FINANCIAL STATEMENTS</u>	46
IEEE Balance Sheets, December 31, 1980 and 1979	47
Statements of Income, Expenses and Changes in Fund Balances for Years Ended December 31, 1980 and 1979	48
Notes to Financial Statements	49
Report on Supplemental Statement	53
Supplemental Statement of Income, Expenses and Changes in Operating Fund Balances for Year Ended December 31, 1980	54

SECTION A

Table 1 - IEEE Membership by Region, Grade, Percentage, as of December 31, 1980

	H	F	SM	M	A	Subtotal	S	Total Membership	% of Total
Region 1		990	4,552	27,244	2,863	35,649	5,931	41,580	19
Region 2		545	3,764	19,705	1,448	25,462	3,689	29,151	14
Region 3		324	2,548	13,528	1,128	17,528	4,115	21,643	10
Region 4		253	2,024	13,823	1,096	17,196	4,482	21,678	10
Region 5	1	183	1,887	13,747	848	16,666	3,941	20,607	10
Region 6		679	4,387	29,943	2,102	37,111	4,572	41,683	20
Subtotal	1	2,974	19,162	117,990	9,485	149,612	26,730	176,342	83
Region 7		74	815	6,889	1,411	9,189	2,733	11,922	6
Region 8		207	943	6,713	728	8,591	1,915	10,506	5
Region 9		10	186	2,925	386	3,507	1,531	5,038	2
Region 10		95	617	6,510	464	7,686	1,868	9,554	4
APO and FPO*		2	19	384	40	445	5	450	
Total	1	3,362	21,742	141,411	12,514	179,030	34,782	213,812	100

Table 2 - IEEE Membership by Grade; 3-Year Comparison, 1978-1980

	December 31, 1980		December 31, 1979		December 31, 1978	
	Number	% of Total	Number	% of Total	Number	% of Total
Honorary (H)	1		1		1	
Fellow (F)	3,362	2	3,308	2	3,238	2
Senior Member (SM)	21,742	10	21,442	11	21,256	11
Member (M)	141,411	66	133,775	66	126,168	66
Associate (A)	12,514	6	11,908	6	11,068	6
Student (S)	34,782	16	31,239	15	29,643	15
Total	213,812	100	201,673	100	191,374	100

Table 3 - IEEE Membership by Region, Percentage; 3-Year Comparison, 1978-1980

	December 31, 1980		December 31, 1979		December 31, 1978	
	Number	% of Total	Number	% of Total	Number	% of Total
Region 1	41,580	19	39,340	20	38,200	20
Region 2	29,151	14	28,051	14	27,474	14
Region 3	21,643	10	20,344	10	18,722	10
Region 4	21,678	10	20,691	10	20,099	11
Region 5	20,607	10	19,509	10	18,254	10
Region 6	41,683	20	38,950	19	36,631	19
Subtotal	176,342	83	166,885	83	159,380	84
Region 7	11,922	6	11,784	6	11,343	6
Region 8	10,506	5	9,513	5	8,520	4
Region 9	5,038	2	4,624	2	4,262	2
Region 10	9,554	4	8,421	4	7,390	4
APO and FPO*	450		446		455	
Adjustment					24	
Total	213,812	100	201,673	100	191,374	100

*Based on APO and FPO Figures

SECTION A

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

	<u>December 31, 1980</u>	<u>December 31, 1979</u>	<u>December 31, 1978</u>
Fellow	1,526	1,491	1,429
Senior Member	4,206	3,901	3,553
Member	2,462	2,208	1,928
Associate	<u>196</u>	<u>177</u>	<u>155</u>
Total	8,390	7,777	7,065

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

	<u>December 31, 1980</u>	<u>December 31, 1979</u>	<u>December 31, 1978</u>
Fellow	9	7	6
Senior Members	71	62	66
Members	2,578	1,832	922
Associate	333	252	133
Student	<u>2,839</u>	<u>2,474</u>	<u>1,496</u>
Total	5,830	4,627	2,623

Table 6 - IEEE Membership by Grade; 1963 - 1980

<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
1977	2	3,087	21,207	122,839	10,603	25,283	183,021
1978	1	3,238	21,256	126,168	11,068	29,643	191,374
1979	1	3,308	21,442	133,775	11,908	31,239	201,673
1980	1	3,362	21,742	141,411	12,514	34,782	213,812

SECTION A

Table 7 - IEEE Membership Changes, By Grade, During Calendar Year 1980, 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 12/31/79	1	3,308	21,442	133,775	11,908	170,434	31,239	201,673
<u>Additions</u>								
Elections		3	202	8,696	564	9,465	20,082	29,547
Dues Arrears Paid		121	1,486	15,494	1,414	18,515	2,497	21,012
Reinstatements		2	55	950	86	1,093	245	1,338
Transfers to		218	1,216	16,914	2,637	20,985	5,007	25,992
Total Additions		344	2,959	42,054	4,701	50,058	27,831	77,889
<u>Deletions</u>								
Resignations		4	37	251	34	326	26	352
Deceased		55	166	198	27	446	6	452
Dues Arrears		142	1,804	27,168	3,423	32,537	6,415	38,952
Transfers from		89	652	6,801	611	8,153	17,841	25,994
Total Deletions		290	2,659	34,418	4,095	41,462	24,288	65,750
Active Membership 12/31/80	1	3,362	21,742	141,411	12,514	179,030	34,782	213,812
Gain/Loss		+54	+300	+7,636	+606	+8,596	+3,543	+12,139

	<u>December 31, 1980</u>	<u>December 31, 1979</u>	<u>December 31, 1978</u>
<u>Additions</u>			
Elections	29,547	26,399	24,492
Reinstatements	1,338	1,710	1,664
Dues Arrears Paid	21,012	17,548	19,821
Total Additions	51,897	45,657	45,977
<u>Deletions</u>			
Resignations	352	603	872
Deceased	452	417	435
Dues Arrears	38,952	34,338	36,276
Total Deletions	39,756	35,358	37,583
<u>Adjustment</u>	-2		-41
Net Gain/Loss	+12,139	+10,299	+8,353

SECTION A

TABLE 8 - IEEE Membership By Region, By Section and Subsection, By Grade
December 31, 1980

REGION 1

<u>Section</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>
Berkshire	14	83	157	6	260	11		271
Binghamton	3	75	440	48	566	74		640
Boston	193	669	4463	334	5659	730	6389	7984
Merrimack Valley	7	38	214	20	279	28	307	
Northshore	16	93	1003	66	1178	110	1288	
Buffalo	11	117	541	61	730	165		895
Connecticut	25	161	1183	118	1487	237	1724	3601
Fairfield County	31	205	1072	101	1409	97	1506	
New London	3	29	270	23	325	46	371	
Ithaca	13	17	127	12	169	147		316
Long Island	62	431	2594	295	3382	283		3665
Maine	6	41	250	23	320	94		414
Mid-Hudson	10	103	814	65	992	67		1059
Mohawk Valley	9	61	311	17	398	43	441	601
Saint Lawrence Int'l		12	56	19	87	73	160	
New Hampshire	14	117	792	84	1007	204		1211
New Jersey Coast	77	231	1459	94	1861	91		1952
New York	43	330	2296	537	3206	1171	4377	5955
Westchester	54	185	1008	136	1383	195	1578	
North Jersey	154	583	3417	342	4496	514		5010
Princeton	81	247	1313	132	1773	255		2028
Providence	17	88	684	60	849	207		1056
Rochester	7	110	780	72	969	282		1251
Schenectady	87	283	605	67	1042	295		1337
Springfield	5	29	173	16	223	123		346
Syracuse	32	123	553	35	743	165		908
Vermont	13	41	283	45	382	111		493
Worcester County	3	50	386	35	474	113		587
TOTALS	990	4552	27244	2863	35649	5931		41580

SECTION A

Table 8 - IEEE Membership By Region, By Section and Subsection, By Grade
December 31, 1980

REGION 2

Section	F	SM	M	A	Subtotal	S	Subtotal	Section Total
Akron	7	63	317	17	404	78		482
Allegheny Mountain	1	12	47	5	65	9		74
Baltimore	32	279	1435	94	1840	166	2006	2929
Annapolis	10	97	719	36	862	61	923	
Canton	0	26	145	6	177	36		213
Central Pennsylvania	6	50	170	6	232	184		416
Cincinnati	6	77	537	37	657	149		806
Cleveland	34	207	1019	84	1344	212		1556
Columbus	17	134	719	91	961	304	1265	1309
Zanesville	0	8	26	4	38	6	44	
Dayton	12	134	997	95	1238	209		1447
Delaware Bay	3	53	288	13	357	50		407
Eastern Shore	5	21	89	21	136	11		147
Erie	4	58	153	7	222	36		258
Johnstown	1	24	96	15	136	37		173
Lehigh Valley	25	152	876	62	1115	245		1360
Lima	3	26	57	5	91	43		134
North Central Ohio	1	29	59	8	97	10		107
Northern Virginia	54	415	2723	164	3356	141		3497
Ohio Valley	0	7	77	7	91	10		101
Philadelphia	112	619	3360	287	4378	531		4909
Pittsburgh	77	413	1589	80	2159	414	2573	2705
Upper Monongahela	2	8	66	3	79	53	132	
Sharon	7	42	152	13	214	116		330
Southern New Jersey	3	24	131	6	164	19		183
Susquehanna	5	66	397	53	521	101		622
Washington	118	699	3301	215	4333	435		4768
West Virginia	0	21	160	14	195	23		218
TOTALS	545	3764	19705	1448	25462	3689		29151

SECTION A

Table 8 - IEEE Membership By Region, By Section and Subsection, By Grade
December 31, 1980

REGION 3

Section	F	SM	M	A	Subtotal	S	Subtotal	Section Total
Alabama	6	135	519	18	678	204	882	887
Montgomery	0	0	0	0	0	5	5	
Atlanta	27	188	1256	147	1618	528	2146	2321
Rome	0	17	37	5	59	8	67	
Central Georgia	0	8	86	3	97	11	108	
Baton Rouge	2	22	222	4	250	147		397
Broward	19	70	479	54	622	30		652
Canaveral	9	83	710	44	846	71		917
Central North Carolina	2	28	173	10	213	33		246
Central Savannah River	1	15	58	4	78	12		90
Central Virginia	19	72	330	14	435	84		519
Charlotte	9	106	413	50	578	89		667
Chattanooga	5	66	208	30	309	39		348
Coastal South Carolina	3	44	169	8	224	88		312
Columbia	2	33	222	12	269	35		304
Daytona	5	30	128	7	170	5		175
Eastern North Carolina	19	101	625	77	822	233	1055	1108
Lower Cape Fear	0	5	41	4	50	3	53	
East Tennessee	5	75	444	20	544	178	722	849
Upper East Tennessee	1	11	93	8	113	14	127	
Evansville-Owensboro	1	26	157	6	190	47	237	299
Paducah	0	1	38	6	45	17	62	
Florida West Coast	71	280	887	71	1309	146		1455
Fort Walton	0	10	130	7	147	8		155
Gainesville	12	28	115	2	157	134		291
Hampton Roads	3	57	413	26	499	123		622
Huntsville	3	57	558	35	653	61	714	769
Muscle Shoals	0	6	39	0	45	10	55	
Jacksonville	1	35	125	16	177	8		185
Lexington	2	18	167	4	191	42		233
Louisville	2	53	279	18	352	257		609
Memphis	0	45	186	55	286	157	443	511
Jackson	0	5	39	7	51	17	68	
Miami	10	108	576	56	750	130		880
Middle Tennessee	0	18	56	2	76	4		80
Mississippi	0	18	216	8	242	45	287	414
NE Mississippi	1	8	41	1	51	76	127	
Mobile	0	17	120	11	148	83		231
Nashville	6	49	229	16	300	208		508
New Orleans	2	87	591	40	720	110		830
Oak Ridge	3	37	132	4	176	28		204
Orlando	15	114	563	58	750	66		816
Palm Beach	27	91	363	51	532	42		574
Panama City	2	10	56	3	71	3	74	154
Tallahassee	2	9	39	5	55	25	80	
Pensacola	1	8	75	5	89	9		98
Piedmont	4	35	244	27	310	107		417
Richmond	3	49	377	27	456	20		476
Savannah	0	8	72	2	82	8		90
Virginia Mountain	6	92	252	15	365	294		659
Western North Carolina	11	31	65	4	111	7		118
Winston-Salem	2	29	115	21	167	6		173
TOTALS	324	2548	13528	1128	17528	4115		21643

SECTION A

TABLE 8 - IEEE Membership Region, By Section and Subsection, By Grade
December 31, 1980

REGION 4

Section	F	SM	M	A	Subtotal	S	Subtotal	Section Total
Arrowhead		13	116	6	135	30		165
Calumet	3	36	301	43	383	155		538
Cedar Rapids	7	48	353	22	430	48		478
Central Illinois	34	84	367	17	502	351		853
Central Indiana	22	121	852	66	1061	433	1494	1621
Bloomington	3	15	89	6	113	14	127	
Central Iowa	4	42	202	14	262	192		454
Chicago	39	228	1272	101	1640	420	2060	3740
Fox Valley	9	156	1329	103	1597	83	1680	
Northwest	9	181	1193	97	1480	120		1600
Fort Wayne	6	58	256	22	342	34		376
Illinois Valley		19	125	6	150	53		203
Iowa-Illinois	1	45	179	17	242	15		257
Madison	8	50	221	15	294	199		493
Michiana	2	27	181	34	244	131		375
Milwaukee	22	154	866	63	1105	274	1379	1530
Racine-Kenosha	4	10	68	21	103	48	151	
Nebraska	3	74	428	81	586	136		722
Northeast Michigan	2	29	203	11	245	67		312
Northeastern Wisconsin	1	20	182	22	225	30	255	484
Upper Peninsula		14	72	7	93	136	229	
Rock River Valley	1	11	194	17	223	37		260
Siouxland	1	19	101	13	134	81		215
Southeastern Michigan	43	276	2042	145	2506	881		3387
Southern Minnesota		6	215	8	229	13		242
Toledo	2	53	255	24	334	106		440
Twin Cities	25	164	1657	80	1926	163	2089	2445
Missouri Slope		14	102	3	119	151	270	
Red River Valley		1	71	2	74	12	86	
West Michigan	2	45	252	24	323	19	342	488
Kalamazoo-Battle Creek		11	79	6	96	50	146	
TOTALS	253	2024	13823	1096	17196	4482		21678

SECTION A

TABLE 8 - IEEE Membership By Region, By Section and Subsection, By Grade
December 31, 1980

REGION 5	H	F	SM	M	A	Subtotal	S	Subtotal	Section Total
Arkansas		3	49	267	15	334	45		379
Beaumont		1	21	160	6	188	71		259
Central Texas		24	115	1024	49	1212	428		1640
Galveston Bay		1	38	416	20	475	51		526
Corpus Christi		1	25	146	32	204	117		321
Dallas	1	30	241	2558	113	2943	193		3136
Denver		37	302	2005	109	2453	436	2889	3033
Black Hills		0	7	52	0	59	85	144	
El Paso		2	48	265	19	334	90		424
Fort Worth		3	84	694	38	819	138		957
Houston		11	193	1886	119	2209	648	2857	2920
Freeport		0	10	46	1	57	6	63	
Kansas		10	164	693	104	971	292	1263	1400
Lafayette		1	21	70	8	100	37	137	
Springfield-Joplin		1	3	118	5	127	68		195
Oklahoma City		6	81	314	20	421	55		476
Ozark		2	23	84	2	111	67		178
Panhandle		1	23	92	10	126	5		131
Permian Basin		0	5	62	5	72	4		76
Pikes Peak		4	30	307	14	355	72		427
Saint Louis		29	211	1407	87	1734	591		2325
Shreveport		2	36	179	11	228	119	347	404
Monroe		0	2	41	3	46	11	57	
South Plains		5	16	116	4	141	155		296
Tulsa		6	87	366	35	494	96		590
West Central Texas		1	12	68	5	86	3		89
Wichita		2	40	311	14	367	58		425
TOTALS	1	183	1887	13747	848	16666	3941		20607

SECTION A

Table 8 - IEEE Membership By Region, By Section and Subsection, By Grade
December 31, 1980

REGION 6

	<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>
Alamogordo-Holloman	1	8	29	2	40	3		43
Alaska		7	159	23	189	3	192	258
Interior Alaska		5	34	5	44	22	66	
Albuquerque	21	92	609	43	765	90		855
Boise		22	168	11	201	12		213
Buenaventura	5	69	633	43	750	25		775
China Lake		11	180	9	200	5		205
Foothill	8	118	791	60	977	71		1048
Eastern Montana		2	49	4	55	6		61
Fort Huachuca		16	99	5	120	2		122
Hawaii	9	35	446	35	525	40		565
Idaho	1	12	108	5	126	12		138
Las Vegas	1	16	112	10	139	6		145
Los Alamos	1	44	141	6	192	5		197
Met Los Angeles	30	107	611	48	796	180		976
Montana		19	120	6	145	38		183
Oakland-East Bay	52	225	1514	110	1901	466		2367
Orange County	21	272	2095	131	2519	167	2686	3745
Saddleback	24	134	782	58	998	61	1059	
Phoenix	27	247	1675	106	2055	240		2295
Portland	28	192	1238	70	1528	89	1617	2045
Eugene	6	31	212	24	273	155	428	
Richland	3	35	200	10	248	25		273
Sacramento	4	77	499	28	608	363	971	1279
Reno	4	23	103	5	135	43	178	
San Joaquin	2	13	86	6	107	23	130	
San Diego	32	276	1514	110	1932	123		2055
San Fernando Valley	21	263	1386	123	1793	185		1978
San Francisco	23	192	1094	108	1417	133		1550
San Gabriel Valley	23	122	622	60	827	81		908
Santa Barbara	16	76	377	25	494	150		644
Santa Clara Valley	177	763	6365	406	7711	663		8374
Santa Monica Bay	54	191	1011	85	1341	210		1551
Seattle	29	249	1899	129	2306	196		2502
South Bay Harbor	19	206	1731	97	2053	135		2188
Spokane	4	42	216	7	269	194		463
Tucson	21	99	393	31	544	127		671
Utah	12	53	503	45	613	214		827
Vandenberg		14	109	9	132	7		139
Wenatchee		9	30	4	43	2		45
TOTALS	679	4387	29943	2102	37111	4572		41683

SECTION A

Table 8 - IEEE Membership By Region, By Section and Subsection, By Grade
December 31, 1980

REGION 7	<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>
Bay Quinte	1	35	154	18	208	65		273
Canadian Atlantic	1	16	167	18	202	84		286
Hamilton	2	47	292	133	474	190		664
Kitchener-Waterloo	1	31	198	73	303	114		417
London	1	24	148	110	283	161		444
Montreal	18	135	1233	111	1497	353		1850
New Brunswick		18	110	8	136	63		199
Newfoundland-Labrador		8	56	3	67	52		119
Northern Canada		15	289	43	347	80		427
Ottawa	12	118	1076	145	1351	231		1582
Quebec	1	9	146	10	166	85		251
Saint Maurice		1	32	1	34	18		52
Saskatchewan	1	18	149	45	213	165		378
Southern Alberta	1	17	290	61	369	89		458
Toronto	26	172	1603	404	2205	549		2754
Vancouver	5	92	607	104	808	192		1000
Victoria	3	16	81	22	122	7		129
Winnipeg	1	43	258	102	404	235		639
TOTALS	74	815	6889	1411	9189	2733		11922

SECTION A

Table 8 - IEEE Membership By Region, By Section and Subsection, By Grade
December 31, 1980

<u>REGION 8</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>
Austria	3	8	46	6	63	2		65
Benelux	19	94	707	60	880	354		1234
Denmark	1	19	210	21	251	47		298
Egypt	6	16	101	7	130	24		154
Finland	0	6	130	9	145	122		267
France	35	82	477	70	664	41		705
Germany	28	89	519	80	716	61		777
Greece	2	19	198	20	239	103		342
Iran	0	5	43	1	49	3		52
Israel	13	40	284	24	361	91		452
Middle & South Italy	3	22	228	25	278	93		371
North Italy	12	19	442	68	541	195		736
Norway	2	23	124	11	160	6		166
Poland	2	41	6	3	52	2		54
Spain	0	17	274	33	324	183		507
Sweden	11	51	313	32	407	193		600
Switzerland	16	81	600	59	756	118		874
U K & Rep of Ire	53	235	1171	120	1579	164		1743
Yugoslav	0	6	97	8	111	7		118
OTHER COUNTRIES	<u>1</u>	<u>70</u>	<u>743</u>	<u>71</u>	<u>885</u>	<u>106</u>		<u>991</u>
TOTALS	207	943	6713	728	8591	1915		10506

SECTION A

Table 8 - IEEE Membership By Region, By Section and Subsection, By Grade
December 31, 1980

<u>REGION 9</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>
Argentina	3	19	186	25	233	177		410
Bahia	0	1	68	2	71	15		86
Bolivia	0	0	19	0	19	5		24
Brazilia	0	1	15	4	20	6		26
Central America	0	0	1	0	1	0	1	318
Costa Rica	0	5	80	9	94	60	154	
El Salvador	0	3	47	5	55	3	58	
Guatemala	0	3	39	6	48	3	51	
Honduras	0	0	34	2	36	2	38	
Nicaragua	0	0	15	1	16	0	16	
Chile	0	7	83	30	120	62		182
Colombia	0	11	148	48	207	268		475
Ecuador	0	3	44	19	66	73		139
Jamaica	0	4	35	9	48	0		48
Mexico	3	32	465	54	554	346	900	926
Guadalajara	1	4	14	2	21	5	26	
Monterrey	0	3	98	10	111	109		220
Panama	0	4	73	6	83	14		97
Peru	0	4	83	7	94	88	182	182
La Oroya	0	0	0	0	0	0	0	
P R & Virgin Is	0	17	231	21	269	45		314
Rio De Janeiro	2	22	219	22	265	22		287
Sao Paulo	0	16	467	52	535	132		667
Venezuelan	0	17	360	30	407	90		497
OTHER COUNTRIES	<u>1</u>	<u>10</u>	<u>101</u>	<u>22</u>	<u>134</u>	<u>6</u>		<u>140</u>
TOTALS	10	186	2925	386	3507	1531		5038

SECTION A

Table 8 IEEE Membership By Region, By Section and Subsection, By Grade
December 31, 1980

<u>REGION 10</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>
Australian	3	67	700	44	814	177	991	1564
Victorian	1	13	292	20	326	51	377	
Bangalore	0	25	70	4	99	28	127	
Kerala	0	8	47	3	58	11	69	
Bombay	4	72	229	22	327	110		437
Calcutta	0	17	123	6	146	29		175
Delhi	2	27	119	7	155	28	183	238
Uttar Pradesh	0	8	29	0	37	18	55	
Hong Kong	1	17	1072	76	1166	350		1516
Korea	1	6	187	9	203	328		531
Madras	1	16	106	8	131	215		346
Malaysia	0	2	96	8	106	2		108
New Zealand North	0	8	102	9	119	23		142
New Zealand South	1	1	36	1	39	31		70
Nigeria	0	3	163	15	181	16		197
Pakistan	0	17	57	7	81	1	82	123
Karachi	0	3	32	4	39	2	41	
Phillippines	1	4	70	7	82	7		89
Singapore	0	2	272	34	308	65		373
South Africa	1	15	88	6	110	4		114
Taipei	0	8	158	6	172	82		254
Thailand	0	5	92	9	106	88		194
Tokyo	79	242	2206	131	2658	186		2844
APO & FPO	2	19	384	40	445	5		450
OTHER COUNTRIES	0	31	164	28	223	16		239
TOTALS	97	636	6894	504	8131	1873		10004

SECTION A

Table 9 - IEEE Membership in Region 8, by Country, by Grade
December 31, 1980 - 3-Year Comparison

Country	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>S</u>	<u>12/31/80 Total</u>	<u>12/31/79 Total</u>	<u>12/31/78 Total</u>
Algeria	1	1	9	1		12	13	8
Austria								55
Bahrein		1	21			22	16	11
Bulgaria		1	1	1		3	6	4
Cyprus		3	21	1		25	22	22
Czechoslovakia		3	9	4		16	15	
Denmark								1
Ethiopia							1	3
France								1
Germany, F R & W Berlin								1
Gibraltar			1			1	2	2
Greece								1
Hungary		10	1			11	11	11
Iceland			22	2	8	32	14	17
Iraq		3	32	3	5	43	41	35
Jordan		1	36	3	1	41	25	23
Kuwait		5	63	6	26	100	52	54
Lebanon			16		3	19	12	8
Liechtenstein			3			3	3	1
Mali			1			1		1
Malta			4	1		5	8	7
Morocco			16		4	20	7	7
Muscat			1			1	2	1
Netherlands								1
Portugal		1	61	9	15	86	67	58
Qatar		1	17	1		19	18	15
Rumania		3	9		2	14	16	14
Saudi Arabia		24	240	18	6	288	235	183
S P Libyan Arab Jamahira		2	42	6		50	44	33
Sudan			6	2	1	9	9	7
Switzerland								3
Syria		1	12	5	1	19	20	17
Trucial Oman		3	49	5		57	52	34
Tunisia			1			1	1	6
Turkey		5	44	3	32	84	87	84
USSR		2	3		2	7	33	20
Arab Republic			2			2		
*TOTALS	1	70	743	71	106	991	832	749
Members Assigned to IEEE Sections	206	873	5970	657	1809	9515	8581	7771
TOTAL, REGION 8	207	943	6713	728	1915	10506	9513	8520

*Members Not Assigned to a Section

SECTION A

Table 10 - IEEE Membership in Region 9, by Country, by Grade
December 31, 1980 - 3-Year Comparison

<u>Country</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>S</u>	<u>12/31/80</u> <u>Total</u>	<u>12/31/79</u> <u>Total</u>	<u>12/31/78</u> <u>Total</u>
Argentina								1
Bahamas & Bermuda		6	17	6	2	31	37	31
Barbados	1		10			11		
Belize							3	2
Brazil							71	57
Cuba		2	1			3	3	3
Dominican Republic			13	2		15	16	14
French Guiana			1			1		
Guyana		1	7	1		9	10	7
Haiti		1	28	7	2	38	6	31
Leeward Islands			1			1	2	2
Netherland Antilles			6	1		7	3	3
Paraguay			4	2	1	7		7
Surinam			1			1	1	1
Trinidad & Tobago							31	1
Uruguay			12	3	1	16	14	12
Windward Islands							11	13
TOTALS*	1	10	101	22	6	140	208	185
Members Assigned to IEEE Sections	9	176	2824	364	1525	4898	4416	4077
TOTAL, REGION 9	10	186	2925	386	1531	5038		

*Members Not Assigned to a Section

SECTION A

Table 11 - IEEE Membership in Region 10, by Country, by Grade
December 31, 1980 - 3-Year Comparison

Country	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>S</u>	<u>12/31/80</u> <u>Total</u>	<u>12/31/79</u> <u>Total</u>	<u>12/31/78</u> <u>Total</u>
Afghanistan								1
Africa								
Basutoland		1				1		
Cameroon			1	1		2		4
Gaboon			1			1	1	1
Ghana		1	5	2		8	6	1
Ivory Coast			1	1		2	1	
Kenya		3	19	4	7	33	36	26
Liberia			3	1		4	2	2
Malawi		1	5	1		7	6	4
Nigeria								2
Rhodesia		1	7	3		11	7	6
Senegal			1	2		3	1	1
Sierra Leone			1			1	1	1
Swaziland			2			2	1	1
Tanzania			4	1	2	7	5	6
Uganda			4	2		6	4	5
Zaire			3			3	2	2
Zambia		7	21	3		31	30	27
Bangladesh		3	8			11	12	10
Brunei		1	6	1	1	9	6	4
Burma			4		1	5	3	2
China, Peoples Republic of			3	1		4	1	2
Fiji Islands			3			3	3	3
Guam		2	7	2		11	11	9
Indonesia		1	27		1	29	33	29
Macao		1				1	1	1
Malaysia								2
Mariana Islands		1				1	1	1
Marshall Islands								1
Mauritius			4	1	1	6	8	9
Mozambique			1			1		
Nepal			2			2	3	4
New Guinea			10	1	2	13	10	8
Sri Lanka		7	11	1	1	20	13	11
Vietnam, North & South		1				1	1	1
TOTALS*		31	164	28	16	239	209	187
Members Assigned to IEEE Sections	95	586	6346	436	1852	9315	8212	7202
APO and FPO	2	19	384	40	5	450	446	445
TOTAL, REGION 10	97	636	6894	504	1873	10004	8867	7845

*Members Not Assigned to a Section

SECTION A

TABLE 12 - IEEE SECTION AND SUBSECTION ACTIONS 1980

SECTION/SUBSECTION ACTIONS

REGION 3

The Central Georgia Subsection of the Atlanta Section was formed and approved February 5, 1980.

The Montgomery Subsection of the Alabama Section was formed and approved December 4, 1980.

The Virginia Council encompassing the sections - Central Virginia, Hampton Roads, Richmond and Virginia Mountain was formed and approved December 4, 1980.

REGION 5

The Springfield-Joplin Subsection of the Kansas City Section was formed and approved May 9, 1980.

REGION 10

The New Zealand Council encompassing the sections - New Zealand North and New Zealand South was formed and approved August 22, 1980.

SECTION B

Table 1 - IEEE Student Branches and Student Branch Membership, 1980

Membership as of December 31, 1980

The total number of Student Branches is now 454, operating as follows:

- IEEE Four-Year Student Branches
- IEEE Less Than Four-Year Student Branches*

SCHOOL	SECTION LOCATION	REGION	MEMBERSHIP 1980
Broome Community College*	Binghamton	01	22
Boston University	Boston	01	105
Franklin Institute of Boston*	Boston	01	8
Massachusetts Institute of Technology	Boston	01	307
Northeastern University	Boston	01	183
Tufts University	Boston	01	60
Wentworth Institute of Technology*	Boston	01	23
Lowell, University of	Boston	01	100
Merrimack College	Boston	01	29
New York Agricultural and Technical College*	Buffalo	01	23
New York College at Buffalo, State University of	Buffalo	01	48
New York, State University of, Buffalo	Buffalo	01	81
Bridgeport, University of	Connecticut	01	39
Bridgeport Engineering Institute*	Connecticut	01	30
Connecticut, University	Connecticut	01	54
Hartford, University of	Connecticut	01	65
New Haven, University of	Connecticut	01	42
Ward Technical College*	Connecticut	01	12
Waterbury State Technical College	Connecticut	01	38
United States Coast Guard Academy	Connecticut	01	33
Cornell University	Ithaca	01	173
Hofstra University	Long Island	01	24
New York State University, Farmingdale*	Long Island	01	14
New York State University, Stony Brook	Long Island	01	128
Polytechnic Institute of New York, L I Center	Long Island	01	48
Maine, University of	Maine	01	91
Clarkson College of Technology	Mohawk Valley	01	82
New York Agricultural and Technical College*	Mohawk Valley	01	37
New Hampshire, University of	New Hampshire	01	136
New Hampshire Vocational Technical College*	New Hampshire	01	15
New York, State University of, Maritime College	New York	01	22
Academy of Aeronautics	New York	01	57
Bramson ORT Technical Institute*	New York	01	21
Bronx Community College - Day Division*	New York	01	26
Bronx Community College - Evening Division*	New York	01	10
City College of New York	New York	01	221
Columbia University	New York	01	116
Cooper Union	New York	01	69
Manhattan College	New York	01	123
New York City College of Applied Arts and Science*	New York	01	21
New York Institute of Technology	New York	01	58
Onondaga Community College*	New York	01	0
Polytechnic Institute of New York	New York	01	270
Pratt Institute	New York	01	81
Queens College	New York	01	20
Queensborough Community College*	New York	01	49
Staten Island, College of - Sunnyside Campus	New York	01	58
Staten Island, College of - St. George Campus*	New York	01	7
Technical Career Institutes*	New York	01	54
Westchester Community College*	New York	01	39
Fairleigh Dickinson University - Day Division	North Jersey	01	67
Morris, County College of*	North Jersey	01	29
New Jersey Institute of Technology	North Jersey	01	231
Stevens Institute of Technology	North Jersey	01	95
Union County Technical Institute*	North Jersey	01	12
Middlesex County College*	Princeton	01	21
Princeton University	Princeton	01	54
Rutgers University	Princeton	01	143
Trenton State College	Princeton	01	45

<u>SCHOOL</u>	<u>SECTION LOCATION</u>	<u>REGION</u>	<u>MEMBERSHIP 1980</u>
Brown University	Providence	01	73
Rhode Island, University of	Providence	01	48
Southeastern Massachusetts University	Providence	01	81
Rochester Institute of Technology	Rochester	01	298
University of Rochester	Rochester	01	76
Hudson Valley Community College*	Schenectady	01	47
Rensselaer Polytechnic Institute	Schenectady	01	219
Union College	Schenectady	01	57
Massachusetts, University of	Springfield	01	109
Western New England College	Springfield	01	34
Syracuse University	Syracuse	01	159
Norwich University	Vermont	01	14
Vermont Technical College*	Vermont	01	57
Vermont, University of	Vermont	01	38
Worcester Polytechnic Institute	Worcester	01	117
Monmouth College	New Jersey Coast	01	24
Akron, University of	Akron	02	74
Johns Hopkins University	Baltimore	02	110
Anne Arundel Community College*	Anapolis	02	10
United States Naval Academy	Washington	02	14
Bucknell University	Central Pennsylvania	02	15
Pennsylvania State University	Central Pennsylvania	02	271
Cincinnati, University of	Cincinnati	02	149
Case Western Reserve University	Cleveland	02	120
Cleveland State University	Cleveland	02	56
John Carroll University	Cleveland	02	3
Franklin University*	Columbus	02	7
Ohio Institute of Technology*	Columbus	02	65
Ohio State University	Columbus	02	196
Ohio University	Columbus	02	62
Dayton, University of	Dayton	02	72
Dayton, University of, Technical Institute*	Dayton	02	44
Sinclair College*	Dayton	02	10
United States Air Force Institute of Technology	Dayton	02	32
Wright State University	Dayton	02	49
Delaware, University of	Delaware Bay	02	40
Capitol Institute of Technology	Washington	02	38
Catholic University of America	Washington	02	13
George Washington University	Washington	02	140
Howard University	Washington	02	39
Maryland, University of	Washington	02	287
Gannon College	Erie	02	29
Pittsburgh, University of, Johnstown	Johnstown	02	32
Lafayette College	Lehigh Valley	02	61
Lehigh University	Lehigh Valley	02	134
Wilkes College	Lehigh Valley	02	24
Northern Ohio University	Lima	02	53
Drexel University - Day Division	Philadelphia	02	145
Drexel University - Evening College	Philadelphia	02	42
Pennsylvania, University of	Philadelphia	02	130
Spring Garden College	Philadelphia	02	24
Swarthmore College	Philadelphia	02	20
Temple University - College of Eng. Tech.	Philadelphia	02	41
Villanova, University of	Philadelphia	02	70
Widner College	Philadelphia	02	19
Carnegie Mellon University	Pittsburgh	02	201
Pennsylvania State University, McKeesport Campus*	Pittsburgh	02	11
Pittsburgh, University of	Pittsburgh	02	134
Stubenville, College of	Pittsburgh	02	18
West Virginia University	Pittsburgh	02	79
Grove City College	Sharon	02	36
Youngstown State University	Sharon	02	88
Pennsylvania State University, York Campus*	Susquehanna	02	25
Pennsylvania State University, Capitol Campus	Susquehanna	02	61
West Virginia Institute of Technology	West Virginia	02	15
Alabama, University of, Birmingham	Alabama	03	27
Alabama, University of	Alabama	03	60
Auburn University	Alabama	03	105
Tuskegee Institute	Alabama	03	35

SCHOOL	SECTION LOCATION	REGION	MEMBERSHIP 1980
Gateway Electronics Institute*	Nebraska	04	29
Nebraska, University of, Lincoln	Nebraska	04	82
Nebraska, University of, Omaha*	Nebraska	04	27
General Motors Institute	Northeastern Michigan	04	106
Lake Superior State College*	Northeastern Wisconsin	04	16
Michigan Technological University	Northeastern Wisconsin	04	165
Northern Illinois University	Rock River Valley	04	47
Notre Dame, University of	Michiana	04	129
Detroit, University of	Southeastern Michigan	04	60
Lawrence Institute of Technology	Southeastern Michigan	04	144
Michigan State University	Southeastern Michigan	04	125
Michigan, University of, Dearborn Campus	Southeastern Michigan	04	73
Oakland University	Southeastern Michigan	04	55
St. Clair College of Technology	Southeastern Michigan	04	26
Michigan, University of	Southeastern Michigan	04	222
Wayne State University	Southeastern Michigan	04	52
Windsor, University of	Southeastern Michigan	04	87
Toledo, University of	Toledo	04	79
Minnesota, University of	Twin Cities	04	99
North Dakota, University of	Twin Cities	04	38
North Dakota State University	Twin Cities	04	122
South Dakota State University	Twin Cities	04	76
Wisconsin, University of, Stout*	Twin Cities	04	39
Western Michigan University	West Michigan	04	60
Purdue University, Calumet Campus	Calumet	04	79
Valparaiso Technical Institute*	Calumet	04	22
Valparaiso University	Calumet	04	50
Arkansas, University of, Little Rock	Arkansas	05	17
Lamar University	Beaumont	05	62
McNeese State University	Beaumont	05	9
Texas, University of, Austin	Central Texas	05	423
Del Mar College*	Corpus Christi	05	82
Texas A & I University	Corpus Christi	05	29
Southern Methodist University	Dallas	05	88
Colorado, University of, Boulder	Denver	05	140
Colorado, University of, Colorado Springs	Denver	05	11
Colorado State University	Denver	05	116
Colorado, University of, Denver Center	Denver	05	56
Metropolitan State College	Denver	05	74
Southern Colorado, University of	Denver	05	37
Wyoming, University of	Denver	05	42
South Dakota School of Mines and Technology	Denver	05	103
United States Air Force Academy	Denver	05	14
New Mexico State University	El Paso	05	64
Texas, University of, El Paso	El Paso	05	43
Texas, University of, Arlington	Fort Worth	05	134
Houston, University of, Clear Lake	Houston	05	24
Houston, University of, College of Engineering	Houston	05	136
Houston, University of, College of Technology	Houston	05	35
Prairie View A & M University	Houston	05	21
Rice University	Houston	05	109
Texas A & M University	Houston	05	381
Central Missouri State University	Kansas City	05	24
Kansas State University	Kansas City	05	103
Kansas, University of	Kansas City	05	111
Missouri Institute of Technology*	Kansas City	05	20
Southwest Missouri State College	Kansas City	05	33
Missouri, University of, Kansas City	Kansas City	05	40
Oklahoma, University of	Oklahoma City	05	33
Missouri, University of, Rolla	Saint Louis	05	301
Missouri, University of, Columbia	Saint Louis	05	113
Southern Illinois University	Saint Louis	05	54
Southern Illinois University, Carbondale	Saint Louis	05	44
Washington University	Saint Louis	05	102
Letourneau College	Shreveport	05	26
Louisiana Technological University	Shreveport	05	90
Northwestern State College of Louisiana	Shreveport	05	20
Texas Technological University	South Plains	05	171
Oklahoma State University	Tulsa	05	92
Tulsa, University of	Tulsa	05	19
Wichita State University	Wichita	05	34
Arkansas, University of	Ozark	05	89
Southwestern Louisiana, University of	Lafayette	05	64

<u>SCHOOL</u>	<u>SECTION LOCATION</u>	<u>REGION</u>	<u>MEMBERSHIP 1980</u>
Dekalb Community College*	Atlanta	03	33
DeVry Institute of Technology-Atlanta*	Atlanta	03	25
Georgia Institute of Technology	Atlanta	03	472
Southern Technical Institute	Atlanta	03	25
Louisiana State University - Baton Rouge	Baton Rouge	03	100
Southern University	Baton Rouge	03	73
Florida Institute of Technology	Canaveral	03	73
Florida International University	Canaveral	03	29
Chattanooga State Technical Institute*	Chattanooga	03	27
Virginia, University of	Central Virginia	03	97
Tennessee, University of	East Tennessee	03	229
Evansville, University of	Evansville-Owensboro	03	16
Indiana State University	Evansville-Owensboro	03	12
South Florida, University of	Florida West Coast	03	128
Florida, University of	Gainesville	03	155
Old Dominion University	Hampton Roads	03	86
Tidewater Community College*	Hampton Roads	03	20
Alabama, University of, Huntsville	Huntsville	03	54
Kentucky, University of	Lexington	03	47
Louisville, University of	Louisville	03	214
Western Kentucky University	Louisville	03	39
Christian Brothers College	Memphis	03	46
Memphis State University	Memphis	03	53
Mississippi, University of	Memphis	03	20
State Technical Institute at Memphis*	Memphis	03	32
Tennessee, University of, Martin	Memphis	03	18
Miami, University of	Miami	03	78
Mississippi State University	Mississippi	03	125
South Alabama, University of	Mobile	03	80
Tennessee State University	Nashville	03	38
Tennessee Technological University	Nashville	03	48
Vanderbilt University	Nashville	03	152
New Orleans, University of	New Orleans	03	34
Tulane University	New Orleans	03	53
Central Florida, University of	Orlando	03	64
Florida Atlantic University	Palm Beach	03	65
Florida A & M University	Panama City	03	30
Georgia Southern College	Savannah	03	12
Savannah State College	Savannah	03	3
Virginia Military Institute	Virginia Mountain	03	42
Virginia Polytechnic Institute	Virginia Mountain	03	318
Virginia Western Community College*	Virginia Mountain	03	19
North Carolina Agricultural and Technical College	Central North Carolina	03	31
Central Piedmont Community College*	Charlotte	03	35
Gaston College*	Charlotte	03	5
North Carolina, University of, Charlotte	Charlotte	03	52
Duke University	Eastern No. Carolina	03	78
Fayetteville Technical Institute*	Eastern No. Carolina	03	17
Holding Technical Institute*	Eastern No. Carolina	03	30
North Carolina State University	Eastern No. Carolina	03	115
The Citadel	Coastal South Carolina	03	90
South Carolina, University of	Columbia	03	43
Clemson University	Piedmont	03	101
Greenville Technical Education Center*	Piedmont	03	15
Icwa, University of	Cedar Rapids	04	30
Illinois, University of, Urbana	Central Illinois	04	424
Purdue University	Central Indiana	04	405
Rose-Hulman Institute of Technology	Central Indiana	04	87
Iowa State University	Central Iowa	04	232
Devry Institute of Technology-Illinois	Chicago	04	133
Illinois, University of, Chicago	Chicago	04	119
Illinois Institute of Technology	Chicago	04	94
Northwestern University	Chicago	04	112
Indiana Institute of Technology	Fort Wayne	04	18
Purdue University - Fort Wayne Campus	Fort Wayne	04	5
Tri-State University	Fort Wayne	04	9
Bradley University	Illinois Valley	04	64
Waukesha County Technical Institute*	Madison	04	19
Wisconsin, University of, Madison	Madison	04	242
Gateway Technical Institute*	Milwaukee	04	36
Marquette University	Milwaukee	04	140
Milwaukee School of Engineering	Milwaukee	04	68
Wisconsin, University of, Milwaukee	Milwaukee	04	69

<u>SCHOOL</u>	<u>SECTION LOCATION</u>	<u>REGION</u>	<u>MEMBERSHIP 1980</u>
New Mexico, University of	Albuquerque	06	78
Alaska, University of	Alaska	06	24
California State Polytechnic Institute, Pomona	Foothill	06	69
Hawaii, University of	Hawaii	06	31
Idaho, University of	Idaho	06	126
Hawaii, University of	Hawaii	06	31
California State University, Los Angeles	Metro Los Angeles	06	50
Northrop Institute of Technology	Metro Los Angeles	06	37
Southern California, University of	Metro Los Angeles	06	237
Montana State University	Montana	06	45
California State University, Fullerton	Orange County	06	40
California, University of, Irvine	Orange County	06	91
Arizona State University	Phoenix	06	114
Devry Institute of Technology	Phoenix	06	74
Northern Arizona University	Phoenix	06	36
Oregon Institute of Technology*	Portland	06	43
Portland State College	Portland	06	21
Portland, University of	Portland	06	39
Oregon State University	Portland	06	132
California, University of, Davis	Sacramento	06	151
California State University, Sacramento	Sacramento	06	141
California State University, Chico	Sacramento	06	119
Nevada, University of	Sacramento	06	46
Pacific, University of	Sacramento	06	17
California State University, San Diego	San Diego	06	92
California State University, Northridge	San Fernando Valley	06	73
Los Angeles Pierce College*	San Fernando Valley	06	55
California State University, Fresno	San Francisco	06	70
California State University, San Francisco	San Francisco	06	41
Stanford University	San Francisco	06	359
California, University of, Berkeley	San Francisco	06	386
California State University, San Jose	San Francisco	06	135
Foothill College*	San Francisco	06	19
California, University of, Santa Clara	San Francisco	06	59
United States Naval Postgraduate School	San Francisco	06	48
Cogswell Polytechnical College*	San Francisco	06	24
Heald Engineering College	San Francisco	06	1
California Polytechnic State University, San Luis Obispo	Santa Barbara	06	79
California, University of, Santa Barbara	Santa Barbara	06	126
California, University of, Los Angeles	Santa Monica Bay	06	203
Loyola Marymount University	Santa Monica Bay	06	36
Seattle University	Seattle	06	32
Washington, University of	Seattle	06	131
California State University, Long Beach	South Bay Harbor	06	71
Gonzaga University	Spokane	06	13
Washington State University	Spokane	06	95
Arizona, University of	Tucson	06	122
Brigham Young University	Utah	06	118
Utah State University	Utah	06	44
Utah, University of	Utah	06	52
Queens University	Bay of Quinte	07	53
Royal Military College of Canada	Bay of Quinte	07	6
Saint Lawrence College of Applied Arts and Technology*	Bay of Quinte	07	12
McMaster University	Hamilton	07	84
Mohawk College of Applied Arts and Technology*	Hamilton	07	18
Northern College of Applied Arts and Technology*	Canadian Atlantic	07	52
Conestoga College of Applied Arts and Technology*	Kitchener-Waterloo	07	19
Waterloo, University of, Stream A	Kitchener-Waterloo	07	144
Waterloo, University of, Stream B	Kitchener-Waterloo	07	47
Fanshawe College*	London	07	66
Western Ontario, University of	London	07	71
Concordia University	Montreal	07	60
Ecole Polytechnique	Montreal	07	113
McGill University	Montreal	07	153
Alberta, University of	Northern Canada	07	78
Algonquin College of Applied Arts and Technology*	Ottawa	07	40
Carleton University	Ottawa	07	134
Ottawa, University of	Ottawa	07	43
Laval University	Quebec	07	79
Saskatchewan Technical Institute*	Saskatchewan	07	55
Saskatchewan, University of	Saskatchewan	07	110
Quebec, Trois Rivieres, University of	Saint Maurice	07	17

<u>SCHOOL</u>	<u>SECTION LOCATION</u>	<u>REGION</u>	<u>MEMBERSHIP 1980</u>
Calgary, University of	Southern Alberta	07	49
Southern Alberta Institute of Technology*	Southern Alberta	07	30
Centennial College of Applied Arts and Technology	Toronto	07	35
Niagara College*	Toronto	07	44
Radio College of Canada*	Toronto	07	48
Ryerson Polytechnic Institute*	Toronto	07	108
Seneca College of Applied Arts and Technology	Toronto	07	59
Toronto, University of	Toronto	07	203
British Columbia Institute of Technology*	Vancouver	07	3
British Columbia, University of	Vancouver	07	178
Manitoba, University of	Winnipeg	07	153
Red River Community College*	Winnipeg	07	74
Memorial University of New Foundland	Canadian Atlantic	07	52
Technical University of Nova Scotia	Canadian Atlantic	07	83
New Brunswick, University of	Canadian Atlantic	07	70
Quebec, University of, Ecole de Tech. Superieure	Montreal	07	13
Catholic University of Louvain	Benelux	08	102
Eindhoven Institute of Technology	Benelux	08	24
Katholiege Universiteit de Leuven	Benelux	08	70
Liege, Universite, Au Sart Tilman	Benelux	08	63
Technische Hogeschool Twente	Benelux	08	21
Cairo, University of	Egypt	08	10
Ecole National Superiores des Telecommunications	France	08	7
Ecole Superior Ing. de Electrotechnique	France	08	1
Institute Superiore Electronique du Nord	France	08	0
Institute Superiore Electronique de Paris	France	08	0
National Polytechnic de Grenoble E N S I E G	France	08	18
Ecole Polytechnique Federale	Switzerland	08	63
Swiss Federal Institute of Technology	Switzerland	08	61
Israel Institute of Technology	Israel	08	47
Tel-Aviv University	Israel	08	19
Bologna, University of	North Italy	08	8
Genova, University of	North Italy	08	1
Politecnico di Milano	North Italy	08	53
Politecnico di Torino	North Italy	08	21
Trieste, University of	North Italy	08	41
Padova, University of	North Italy	08	76
U K R I Section	U K R I	08	137
Chalmers University of Technology	Sweden	08	56
Linkoping University	Sweden	08	30
Lund Institute of Technology	Sweden	08	30
Royal Institute of Technology	Sweden	08	22
Uppsala, University of	Sweden	08	43
Florence, University of	Middle and South Italy	08	19
Rome, University of	Middle and South Italy	08	67
Escuela Tec. Superiores de Ing. de Telecommunications	Spain	08	168
Kuwait University	Iran	08	20
Aristotelian University of Thessalonika	Greece	08	8
Technical University of Athens	Greece	08	51
Ljubljana, University of	Yugoslavia	08	3
Helsinki University of Technology	Finland	08	54
Oulu, University of	Finland	08	35
Tampere University of Technology	Finland	08	31
Buenos Aires, University of	Argentina	09	110
Instituto Tecnologico de Buenos Aires	Argentina	09	34
Universidad del Sur	Argentina	09	6
Universidad Nacional de Tucuman	Argentina	09	22
Universidad Catolica de Chile	Chile	09	10
Instituto Tecnologico Regional de Salta	Guadalajara	09	37
Centro Col. Estudios Profesionales	Colombia	09	0
Distrital Fran Jose de Caldas Universidad	Colombia	09	55
Ponitificia Universidad Javeriana	Colombia	09	53
Universidade Autonoma de Colombia	Colombia	09	32
Universidade Piloto de Colombia	Colombia	09	20
Universidade de Los Andes	Colombia	09	10
Universidade Industrial de Santander	Colombia	09	8
Universidade Nacional de Colombia	Colombia	09	31
Universidade de Guanajuato	Mexico	09	5
Escuela Sup. Ingenieria Mec y Elec	Mexico	09	76
Universidade de Las Americas	Mexico	09	7
Universidade Nacional Autonoma de Mexico	Mexico	09	18
Instituto Tec. y de Est Superiores de Monterrey	Mexico	09	206

<u>SCHOOL</u>	<u>SECTION LOCATION</u>	<u>REGION</u>	<u>MEMBERSHIP 1980</u>
Puerto Rico, University of	Puerto Rico/ Virgin Islands	09	37
Universidade Federal de Rio de Janeiro	Rio de Janeiro	09	4
Escola Polytechnic Universidade de Sao Paulo	Sao Paulo	09	21
Estadual de Campinas Universidade	Sao Paulo	09	15
Mackenzie University	Sao Paulo	09	37
Universidade Estadual Paulista Julio de Mesquita Filho	Sao Paulo	09	20
Escuela de Eng. De Sao Carlos de Sao Paulo	Sao Paulo	09	20
Universidad Central de Venezuela	Venezuela	09	7
Universidade de Carabobo	Venezuela	09	40
Universidade Nacional de Ingeniera, Lima	Peru	09	86
Centroamericana Universidade	Central America	09	0
Universidade de El Salvador	Central America	09	0
Universidade de San Carlos de Guatemala	Central American	09	58
Universidade de Costa Rica	Central America	09	1
Escuela Politecnica Nacional*	Ecuador	09	49
Philippines, University of	Philippines	10	20
Regional Engineering College, Warangal	India	10	52
Indian Institute of Technology, Kanpur	India	10	24
Indian Institute of Technology, Delhi	India	10	22
Chinese University of Hong Kong	Hong Kong	10	81
Hong Kong Polytechnic	Hong Kong	10	130
Hong Kong, University of	Hong Kong	10	130
College of External Studies	Australia	10	1
Osaka University	Tokyo	10	19
Shizuoka University, Graduate School	Tokyo	10	27
Tokyo, University of	Tokyo	10	62
Korea Advanced Institute of Science	Korea	10	126
Seoul National University	Korea	10	176
Regional Engineering College, Tiruchirapalli	Bangalore	10	23
Banaras Hindu University	Bombay	10	20
Government College of Technology	Bombay	10	0
Indian Institute of Technology, Bombay	Bombay	10	54
PSG College of Technology	Madras	10	105
Indian Institute of Technology, Madras	Madras	10	68

SECTION C

Table 1 - Society/Group Membership, by Grade, December 31, 1980; 3-Year Comparison

Code No.	Society/Group Name	H	F	SM	M	A	Sub-Total	S	1980 Total	1979 Total	1978 Total
1	Acoustics, Speech & Signal Processing		172	572	5,527	403	6,674	1,945	8,619	7,585	6,899
2	Broadcast, Cable & Consumer Electronics		136	564	5,157	730	6,587	1,345	7,932	7,122	6,697
3	Antennas & Propagation		243	701	3,026	218	4,188	908	5,096	4,660	4,453
4	Circuits & Systems		243	625	6,938	622	8,428	2,982	11,410	10,582	10,074
5	Nuclear & Plasma Sciences		109	392	1,911	176	2,588	485	3,073	2,864	2,721
6	Vehicular Technology		68	348	1,897	261	2,574	244	2,818	2,674	2,569
7	Reliability		69	409	2,329	217	3,024	159	3,183	2,929	2,807
9	Instrumentation & Measurement		132	518	3,807	379	4,836	723	5,559	5,304	5,081
10	Aerospace & Electronic Systems		256	967	5,073	311	6,607	1,039	7,646	7,095	6,913
12	Information Theory		196	385	3,223	217	4,021	1,167	5,188	4,941	4,797
13	Industrial Electronics & Control Instrumentation		74	441	4,252	375	5,142	983	6,125	5,723	5,306
14	Engineering Management		127	885	6,203	433	7,648	821	8,469	7,833	7,408
15	Electron Devices		334	870	6,321	374	7,899	1,744	9,643	8,612	7,998
16	Computer		412	2,044	32,531	2,715	37,702	9,479	47,181	39,987	35,388
17	Microwave Theory & Techniques		260	723	4,069	285	5,337	1,091	6,428	5,932	5,694
18	Engineering in Medicine & Biology		142	507	4,403	375	5,427	2,098	7,525	7,319	7,307
19	Communications		377	1,372	10,217	765	12,731	2,902	15,633	13,474	12,336
20	Sonics & Ultrasonics		86	264	1,458	131	1,939	372	2,311	2,202	2,073
21	Components, Hybrids & Manufacturing Technology		72	341	2,127	273	2,813	313	3,126	2,917	2,849
23	Control Systems		167	539	5,726	321	6,753	2,132	8,885	7,774	7,329
25	Education		164	472	1,365	141	2,142	234	2,376	2,221	2,192
26	Professional Communication		35	237	1,522	187	1,981	276	2,257	1,922	1,738
27	Electromagnetic Compatibility		85	310	1,374	128	1,897	175	2,072	1,868	1,727
28	Systems, Man & Cybernetics		135	375	2,974	221	3,705	1,155	4,860	4,688	4,798
29	Geoscience Electronics		58	189	1,089	108	1,444	239	1,683	1,479	1,403
31	Power Engineering		584	3,930	14,753	850	20,117	1,494	21,611	21,166	20,571
32	Electrical Insulation		81	333	1,075	109	1,598	130	1,728	1,524	1,432
33	Magnetics		103	369	1,762	171	2,405	287	2,692	2,412	2,183
34	Industry Applications		164	1,694	8,286	494	10,638	795	11,433	10,788	10,020
36	Quantum Electronics & Applications		135	327	2,001	151	2,614	886	3,500	3,261	3,049
	Totals	0	5,219	21,703	152,396	12,141	191,459	38,603	230,062	208,858	195,812

SECTION C

Table 2 - Society Membership, by Region, by Section, by Society - 1980

REGION 1 Section	Total Members	Total Affil- iates	ASSP	BCCE	AP	CAS	NPS	VT	R	IM	AES	IT	IECI	EM	ED	COMP	MTT	EMB	COM	SU	CHMT	CS	Ed	PC	EMC	SMC	GE	PE	EI	MAG	IA	QEA
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	23	25	26	27	28	29	31	32	33
Berkshire	177	1	2	3	2	2	1		1	3	11	1	3	9	3	31	2	4	6	1	5	12	1	2	4	4	1	49	10	1	2	1
Binghamton	513	13	19	19	5	27	5		12	5	35	10	8	24	17	175	5	5	15		6	22	1	5	8	7		38	6	12	19	3
Boston	8916	277	415	231	234	438	103	70	151	234	448	287	140	377	412	1980	333	341	677	102	172	390	51	83	59	198	65	449	45	113	178	140
Buffalo	804	25	30	36	13	29	15	10	7	18	30	17	36	26	16	142	11	35	24	4	13	42	7	7	5	19	2	89	13	5	97	6
Connecticut	3244	57	145	123	47	155	50	23	53	78	73	62	84	148	128	689	57	132	220	60	47	108	29	33	30	63	22	276	39	29	175	66
Ithaca	394	11	15	18	11	31	13	4	2	8	1	9	3	13	46	83	26	16	15	2	4	16	4	6	2	5	1	13	1	4	9	23
Long Island	2781	47	87	149	74	115	47	40	73	59	170	54	35	130	96	558	142	97	168	32	55	70	23	36	42	49	15	212	17	28	71	37
Maine	244	6	6	10	9	9	3	5	3	4	6	1	8	7	7	35	8	10	16	5	2	7	3	2		3	3	32	1	3	32	4
Mid-Hudson	872	28	17	29	3	54	4	10	22	8	9	11	10	28	117	325	8	17	31	8	23	7	6	9	3	7	2	60	7	10	21	6
Mohawk Valley	502	15	22	9	26	24	4		20	6	50	17	3	24	21	88	15	6	31	1	8	22	9	5	16	14	4	28	5	3	11	10
New Hampshire	1126	36	55	42	36	54	12	14	21	29	41	17	24	55	25	301	47	27	72	5	24	22	12	20	12	11	7	95	7	12	19	8
New Jersey Coast	1751	46	58	39	41	71	13	28	32	26	47	47	16	62	72	444	64	30	357	18	20	39	12	19	31	36	5	45	5	13	22	39
New York	5657	183	211	284	79	299	81	63	62	94	163	128	96	192	197	1365	126	296	474	53	54	145	62	70	29	122	20	508	44	52	205	83
North Jersey	4141	87	157	150	55	176	36	62	61	136	142	80	95	186	164	854	87	124	383	30	60	92	37	44	32	58	13	404	58	76	240	49
Princeton	1861	55	69	84	30	72	40	21	26	42	41	32	38	60	141	402	62	76	160	27	25	51	19	22	12	36	9	118	17	23	62	44
Providence	927	19	76	31	10	45	7	2	8	20	31	23	21	29	34	245	10	45	45	15	7	32	12	1	8	25	15	72	16	5	23	14
Rochester	1107	30	40	27	17	46	7	17	15	23	25	14	37	48	74	285	13	36	72	13	17	48	8	16	5	20	3	92	3	13	53	20
Schenectady	1347	21	45	23	9	43	26	11	14	27	20	27	36	21	72	180	22	41	55	15	10	65	20	10	11	31	5	333	23	29	111	12
Springfield	318	3	17	19	9	18	2	1	1	3	6	10	4	3	15	79	13	3	20	3	1	13	3	2	2	12	3	34	1	3	11	7
Syracuse	916	12	41	35	44	44	8	4	15	13	57	19	18	25	56	188	39	36	35	13	13	18	11	11	14	18	2	78	4	3	45	9
Vermont	355	8	13	12	2	26	3	4	8	7	8	1	3	14	71	91	4	15	8	4	7	7	6	1	1	5	1	24	3	2	2	2
Worcester County	571	23	24	22	6	41	3	3	9	10	7	6	9	21	26	154	14	26	35	6	10	12	6	5	6	10	4	62	6	14	10	4
TOTALS	38524	1003	1564	1385	762	1819	483	392	616	853	1421	873	727	1502	1810	8694	1108	1418	2919	417	583	1240	342	409	332	753	202	3111	331	453	1418	587

26

REGION 2 Section	Total Members	Total Affil- iates	ASSP	BCCE	AP	CAS	NPS	VT	R	IM	AES	IT	IECI	EM	ED	COMP	MTT	EMB	COM	SU	CHMT	CS	Ed	PC	EMC	SMC	GE	PE	EI	MAG	IA	QEA
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	23	25	26	27	28	29	31	32	33
Akron	390	7	10	8	5	11	4	7	4	11	13	1	11	9	5	65	4	9	13	2	5	18	2	3	2	3	3	92	11	1	57	1
Alleghany Mountain	45	1	1	1		1	1	1	1	1			4	2	2	3	1	2	1		5	1	1				5		4	8		
Baltimore	2685	95	105	66	82	98	29	22	60	52	220	66	29	137	105	505	113	94	183	27	27	76	11	31	82	32	14	218	11	25	130	35
Canton	187	1	2	7	4	8	4	3		7	5	2	7	4	5	29	1	2	8	3		4	2		1		1	52	2	2	20	2
Central Pennsylvania	324	4	19	14	12	11	7	1	3	3	19	11	6	7	21	73	14	13	17	7	3	17	8	1		6	1	14	2	4	5	5
Cincinnati	677	9	30	23	7	33	5	13	2	10	8	7	35	23	37	146	8	19	25	6	11	29	8	2	4	14	7	70	6	7	79	10
Cleveland	1565	16	49	47	22	64	31	36	14	48	16	27	85	72	40	259	12	89	51	20	16	73	10	16	8	42	5	172	14	18	195	14
Columbus	1367	40	23	35	65	48	15	21	16	36	38	17	46	55	20	312	34	32	85	9	13	59	19	12	7	38	8	181	11	13	84	15
Dayton	1297	29	36	31	30	35	11	14	19	20	142	32	15	105	65	307	31	44	60	6	15	50	12	11	25	24	7	59	6	12	40	33
Delaware Bay	383	15	16	5	2	13	4	2	2	8	3	4	15	17	14	98	2	14	8	2	6	15	1	3	10	2	49	10	5	49	4	
Eastern Shore	86	2	2	4	1	2		1	1	1	4		3	3	1	24	3	1	5			2	1			2	16	1	1	6	1	
Erie	164	1	3	4		3	1	4		3	3	1	7	7	1	24		4	6	1	4	5	3	4	5	1	20	5	5	40		
Johnstown	105	1	4	7	1	7	1	3		3	3	1	6	3	2	16	1	3	4			3	3	2			15			16	1	
Lehigh Valley	967	8	15	31	7	45	17	7	14	19	11	4	35	26	121	140	29	17	29	6	34	23	10	6	1	6	1	180	8	15	88	22
Lima	60	1				2	2	2		2	5		4	6	3	10	1			3		3	1			1	7			8		
North Central Ohio	73		1	3		1	1		1			1	1	6	1	9		1	18			2	1	2			14	1		8		
Northern Virginia	3727	212	208	93	157	102	39	83	63	45	277	138	27	228	82	877	74	55	517	21	16	112	19	31	70	100	49	123	4	11	56	50
Ohio Valley	73		6		2	2				2		1	3	3		9	1	1	3			2					17	2	1	18		
Philadelphia	4392	104	137	153	86	169	58	46	71	88	193	70	95	188	114	25	91	187	247	31	92	144	46	46	43	92	18	507	31	47	250	27
Pittsburgh	2452	43	54	44	16	83	40	23	32	44	26	18	84	85	66	427	17	70	75	24	8	91	27	26	7	61	8	507	43	53	370	23
Sharon	177	3	5	10		7	3	4	1	5	3		9	2	6	28	1	3	3		2	4	2	1	3	2	1	37	9	2	24	
Southern New Jersey	135	4	3	5		5	2	3		3	15		3	6	5	39		2	4		1	6	1			5	18	1	2	5	1	
Susquehanna	480	8	10	41	6	28	10	11	9	14	9	6	20	22	10	90	11	10	17	17	19	12	4	8	2	6	2	32	4	6	34	10
Washington	4935	311	193	163	193	141	109	73	67	124	329	174	33	235	151	91	170	148	148	43	34	145	37	58	76	111	52	247	19	42	81	75
West Virginia	137	3	4	6	2	6		6	1	3	2	2	6	4		15	2	4	8			7	2	1		1	18	1		35	1	
TOTALS	26883	917	930	807	700	924	394	386	381	552	1344	583	589	1255	877	5621	621	824	1911	225	311	901	232	265	336	556	174	2670	202	276	1706	330

SECTION C

Table 2 - Society Membership, by Region, by Section, by Society - 1980

REGION 3 Section	Total G/S Members	Total Affil- iates	ASSP	BCCE	AP	CAS	NPS	VT	R	IM	AES	IT	IECI	EM	ED	COMP	MTT	EMB	COM	SU	CHMT	CS	Ed	PC	EMC	SMC	GE	PE	EI	MAG	IA	QEA			
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Alabama	621	12	18	23	7	14	3	4	6	11	11	5	12	21	14	118	4	29	77	2	2	18	18	6	1	6		138	6	4	40	3			
Atlanta	2238	28	80	96	91	104	16	18	12	50	60	35	49	72	38	470	88	51	174	4	14	54	24	28	30	31	6	337	14	10	147	35			
Baton Rouge	224	1	4	2		7	1	1	1	3	2	2	10	13	7	48		5	10		2	9	2	1		5	2	34	4	47	2				
Broward	528	13	13	20	13	23	6	19	9	12	16	6	5	41	13	112	18	16	37	3	12	11	5	3	4	5	1	75	1	4	21	4			
Canaveral	864	13	29	22	36	47	7	11	10	18	54	24	8	32	59	222	30	15	104	4	14	18	7	12	10	7	7	27	2	4	13	11			
Central North Carolina	152	1	8	8	2	6	1	3	2	3	2	3	7	14	5	44	2	5	9	1	2	3		8		1	1	4		7	1				
Central Savannah River	53	4		2	1	4							2	4	1	12		9	5			1					5		7						
Central Virginia	566	15	25	16	10	26	9	31	5	15	13	13	21	21	13	105	14	19	41	10	10	38	7	9	8	18	1	32	3	4	15	14			
Charlotte	478	2	2	14	3	8	3	4		12	2	1	15	22	5	70	1	6	45	1	4	9	3	2	1	1	2	178	11	6	45	2			
Chattanooga	227	6	4	5	2	4	4		2	5		1	6	10	1	20	1	1	7	1	1	9	1	3	1		1	125	1	13					
Coastal South Carolina	135	3	5	6	2	2	4	2	2	3	1		6	8	4	18	1	8	7	1	1	2	2	2	2	4		25		15	2				
Columbia	242	10	3	5	1	11	4	4	3	3	2		3	14	5	86	3	6	16	1	5	7	2	2	2	4	3	22	4	1	20	2			
Daytona	113	2	5	4	1	3				3	6		1	9	1	38		2	8			5		2	2	2	2	14		1	2				
Eastern North Carolina	979	38	32	25	17	36	10	11	8	21	28	21	18	40	34	220	21	60	106	5	9	26	8	8	8	25	7	120	4	9	30	12			
East Tennessee	624	16	8	34	4	20	31		14	19	10	6	24	17	18	126	5	14	16	2	4	33	3	4	2	10		139	5	3	47	6			
Evansville-Owensboro	172	3	5	9	1	12	3	1	1	1	5	1	8	11	7	23	3	3	3		7	11	5	3			1	24		3	21				
Florida West Coast	1210	18	45	37	22	50	10	17	26	27	45	22	27	47	24	265	51	25	78	7	21	29	12	10	9	16	9	189	11	11	58	9			
Fort Walton	108	1	6	7	2	4			3	1	13	5		4	2	20	4	3	6		3	8		2	2	3		5		2	3				
Gainesville	289	14	20	10	7	16	2	3	1	6	6	7	4	4	26	51	5	11	24	2	1	18	7	2	3	7	3	23	1	3	10	6			
Hampton Roads	534	21	19	32	11	25	10	1	6	8	28	10	8	14	11	154	15	17	41	4	3	30	9	3	2	12	8	21	3	3	19	10			
Huntsville	630	46	27	12	20	24	7	8	16	15	54	11	9	29	7	187	20	11	27	3	9	52	5	3	2	15	5	20	1	2	17	12			
Jacksonville	116	1		6		4		2		3	3		5	6		17		2	6		1	2	1	3			33	2	19	1					
Lexington	192	7	9	5	7	13			2	3	4	3	5	13	4	38	8	8	9	4	3	9	1	1	5	4		15	2	3	14				
Louisville	279	7	13	20	5	20		7	3	8	5	3	9	9	7	57	3	7	13	1	3	7	2	1	6		27	3	4	33	3				
Memphis	351	5	7	13	13	11	6	2	2	5	6	5	13	7	9	72	10	22	14	2	2	13	6	2	6	4	3	60	3	3	25	5			
Miami	769	10	16	16	11	31	7	14	8	24	13	6	18	67	13	112	10	71	60	4	14	10	4	7	4	7	6	157	5	2	48	4			
Middle Tennessee	47		1	1	1	2				3	5		2	2		12	1	1				4		1			5		6						
Mississippi	184	3	3	9	7		4	3		8		2	3	9	5	34	4	5	8		1	6	5	1	2	2	2	47	3	2	8	1			
Mobile	72		1	2	2	4	1		1				3	6	2	14		2	2			2		2	1	1		13		13					
Nashville	334	14	16	14	1	21	2	3		6	2		9	15	7	69	5	24	24	3	4	14	4	3		8	1	38	2	6	26	7			
New Orleans	616	4	18	14	13	17	2	6	3	14	17	8	21	18	4	102	11	29	62	5	18	3	6	6	3	11	133	2	1	66	3				
Oak Ridge	157	3	4	5	2	5	42	1	1	6		1	6	4	4	26	5	1	1	2	2	1	1	1	1	1	1	20		2	9	3			
Orlando	632	12	21	20	17	21	1	14	13	13	43	5	13	26	16	177	26	10	74	6	6	18	5	7	11	8	2	31	6	13	9				
Palm Beach	370	9	6	13	3	20	7	6	7	11	12	3	7	18	12	99	6	7	20	3	8	11	4	4	5	5	4	43	2	5	11	8			
Panama City	96	3	3	10	2	6	2	1	2	1	2	2	4	4	2	24	1	3	4	1		2	1				5		2	10					
Pensacola	49		1	1		2				2	2		2	2		13		5	2			2					10		4						
Piedmont	263	5	5	8	2	7	2	2	4	2	3	4	13	10	3	71	1	9	9		4	12	8	4		5	1	28	4	2	40				
Richmond	403	18	8	8	8	10	3	4	4	10	14	3	22	19	6	76	7	10	16	2	1	27	2	5	6	4	3	83	6		35	1			
Savannah	58	1	2	3		1				3		1	2	2	8	1	1	2	1		1		1			1	1	15	1	1	8	2			
Virginia Mountain	466	8	14	10	8	16	7	4	1	4	10	4	22	19	15	101	6	7	26	2	2	35	7	4	3	6		57	2	8	55	11			
Western North Carolina	101	2	1	3	3	2	1	1		3	2	1	2	5	2	7	2	2	10	1	4	2	3		2	2	1	13	3	3	18	2			
Winston-Salem	92		2	4	1	7				2	4		3	3	1	27		6	7	2	4		1	5	1		1	9			2				
TOTALS	16634	379	509	574	359	666	218	208	179	366	505	228	427	711	409	3565	393	548	1210	89	183	587	179	169	139	241	93	2397	105	126	1060	191			

SECTION C

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REGION 4		Total	Total	ASSP	BCCE	AP	CAS	NPS	VT	R	IM	AES	IT	IECI	EM	ED	COMP	MTT	EMB	COM	SU	CHMT	CS	Ed	PC	EMC	SMC	GE	PE	EI	MAG	IA	QEA
Section	Members	Affiliates	1	2	3	4	5	6	7	9	10	12	13	14	15	16	17	18	19	20	21	23	25	26	27	28	29	31	32	33	34	36	
Arrowhead	84		1	3		2		1		2			3	3	1	8				4			1				1	1	37	1	1	13	1
Calumet	389	9	7	13	6	19	5	8	2	6	6	8	19	16	4	69	7	15	23	2	2	22	4	1	2	5	1	60	5	2	49	1	
Cedar Rapids	377	8	18	9	8	20	7	7	9	10	20	7	4	13	11	103	17	15	18	6	5	17		2	6	7		22		2	10	4	
Central Illinois	967	18	38	22	35	63	19	10	5	9	17	32	15	31	55	160	34	38	67	14	8	60	11	6	4	25	2	107	4	5	36	35	
Central Indiana	1666	35	71	97	17	89	13	27	12	29	37	46	44	45	59	334	25	68	91	31	16	67	26	13	2	51	17	225	10	21	68	15	
Central Iowa	379	7	6	6	4	12	3	2	2	6	5	3	7	8	5	125	4	13	14	5	4	18	13	1	2	5	1	69	1	6	23	6	
Chicago	5534	187	177	306	77	272	89	137	80	119	77	69	164	225	121	1237	130	207	384	61	94	119	36	46	42	84	26	642	46	54	357	58	
Fort Wayne	335	4	11	22	3	15	6	11	4	6	15	6	4	20	8	63	9	5	24	2	11	5	1	2	1	4	2	35	10	4	22	4	
Illinois Valley	131	5	4	6	2	4		4	1	1	1	1	4	7	2	30	1	6	4			5	2	2		1	18	1	1	22	1		
Iowa-Illinois	186	4	4	3	2	5	4		2	2	2	2	12	8	3	29	2	3	3	1	1	6	1	3	1	2	59	1	1	25	3		
Madison	618	21	19	19	10	23	6	3	18	12	9	9	18	19	13	143	13	53	36	4	3	37	12	7	2	12		88	1	4	31	4	
Michiana	273	6	17	19	2	12	1	2	3	11	7	9	11	17	4	52	2	12	10	3	8	18	3	3	1	6	1	19	2	2	14	2	
Milwaukee	1545	23	35	64	15	65	16	24	15	36	29	13	70	67	30	281	20	91	49	18	18	50	12	13	9	21	2	202	20	28	216	16	
Nebraska	633	6	6	21	6	22	8	9	4	8	9	4	19	39	15	125	8	21	34	3	5	21	4	5	3	7	4	180	4		30	9	
Northeast Michigan	231	6	3	5		18	2	8	4	13	3		15	10	2	48	2	9	3		3	14	4	1	2		1	28	12	1	28	2	
Northeastern Wisconsin	438	4	8	13	7	23	1	3	4	12	9	2	26	11	4	89	4	11	18	2	1	21	13	7	2	6		75	7	3	54	3	
Rock River Valley	196	3	4	11	1	8	1	5	4	6	5		12	6	9	35	1	5	10	4	4	10	3	5			25	1	4	14	3		
Siouxland	107	2		10	2	1		1	1	1	2	1	2	3	24	1	4	9				2	4	1		3	2	27	2		5		
Southeastern Michigan	3483	82	125	109	58	163	41	139	42	81	75	72	114	134	124	802	69	124	144	33	28	173	34	32	27	82	13	370	17	22	190	48	
Southern Minnesota	219	10	9	8		10	4	2	1	5	1	2	3	5	8	91	2	16	7	1	3	5	1	2	2	3		15		6	7	1	
Toledo	355	4	9	11	2	19	5	7	1	8	6	4	25	11	14	66	3	19	11	2	4	21	3	1	3	1		38	4	3	49	2	
Twin Cities	2616	65	76	70	33	118	16	22	53	48	61	36	62	104	143	662	42	136	120	17	49	90	26	33	27	60	11	276	10	75	112	28	
West Michigan	401	13	7	16	4	14	2	10	9	13	21	5	11	23	5	101	2	17	11	3	7	18	6	3	3	8	1	40	4	6	28	3	
TOTALS	21163	522	655	863	292	988	250	441	263	444	416	331	663	824	643	4677	398	888	1094	212	274	800	219	189	141	395	85	2657	162	251	1403	245	
Region 5		Total	Total	ASSP	BCCE	AP	CAS	NPS	VT	R	IM	AES	IT	IECI	EM	ED	COMP	MTT	EMB	COM	SU	CHMT	CS	Ed	PC	EMC	SMC	GE	PE	EI	MAG	IA	QEA
Section	Members	Affiliates	1	2	3	4	5	6	7	9	10	12	13	14	15	16	17	18	19	20	21	23	25	26	27	28	29	31	32	33	34	36	
Arkansas	242	2	3	6	2	8		1	1	4	1	2	13	8	1	27	2	7	8	1	2	7	4	2		1	1	76	4	1	49	1	
Beaumont	119	2	3	4	3	6		2	3	2	1	1	6	1	2	21	2	3	2			5	3	1			1	28	1	1	15	2	
Central Texas	1569	69	63	53	30	70	15	9	16	25	37	37	17	48	72	553	21	67	73	14	11	58	17	14	15	22	21	124	4	7	34	20	
Corpus Christi	157		4	5	3	5	1	2	1	6	4	1	8	4	8	16	2	2	8	1	3	3		1		2	5	43	1		17	1	
Dallas	2864	66	119	105	77	137	26	49	50	32	97	41	35	101	247	644	132	48	209	23	43	48	15	29	16	41	32	274	9	35	93	57	
Denver	3002	96	112	80	122	132	45	38	37	88	90	46	66	123	110	649	82	105	144	26	25	108	29	27	52	48	56	308	10	44	157	43	
El Paso	330	11	15	11	14	15	7	2	4	8	18	9	5	15	5	67	5	10	11	2	2	16	7	6	4	12	9	25		3	15	8	
Fort Worth	917	23	34	38	27	45	9	16	8	12	61	18	15	33	28	214	23	28	59	7	10	28	5	9	9	5	117	2	11	25	12		
Galveston Bay	421	15	156	68	40	149	36	22	24	77	39	61	108	96	84	587	29	115	167	39	31	127	15	26	11	46	102	3330	11	26	282	28	
Houston	2932	54	17	10	10	6	5		1	8	48	14	6	19	4	125	3	19	37	1	1	22	2	2	1	14	9			27	1		
Kansas City	1144	20	30	45	28	47	12	10	5	26	32	12	33	51	23	237	32	34	76	5	11	20	18	16	8	15	25	219	4	4	55	11	
Lafayette	97	4	5	1		4		3		1	1	1	7	3	2	28	1	2	6			3	2			1	3	8		1	13	1	
Oklahoma City	449	5	17	19	5	14	6	7	5	9	13	7	15	16	4	93	13	12	23	7	1	11	3	5	2	7	6	86	1	5	32	7	
Ozark	100		3	4	4	4	2	1		1	5	3	4	1	5	20	1	6	4	1		5	3			4	4	9			5	1	
Panhandle	57			1							3		2	2	1	9	1	1				5	1					23			8		
Permian Basin	35			1		2					3		3	2	1	6					1		2		1			1	5			7	
Pikes Peak	436	10	16	9	4	34	9	2	10	6	18	6	5	16	55	118	8	10	23	1	9	16	8	1	3	10	1	15		5	8	10	
Saint Louis	2016	59	54	57	28	88	22	13	23	40	88	27	65	72	42	446	36	65	107	13	17	100	23	18	17	45	15	255	24	13	192	21	
Shreveport	184	2	4	5	2	10	1	2	1	2	3	2	8	5	1	27	4	5	11		1	4	2	2			4	1	37	6	2	29	3
South Plains	213	6	17	9	2	19	7		3	3	9	2	3	7	15	45	2	12	9	1	3	8	6			1	5	3	13	1	3	5	
Tulsa	523	15	37	12	8	16	4	5	6	13	7	13	18	16	4	94	2	9	16	5	2	36	8	5	3	7	23	94	4	5	49	2	
West Central Texas	71	1	1	5	2	1	2	1	2	1	1	1	1	5		8	1	1	10	1		1	1	1	1	1	1	21	2		2		
Wichita	372	11	14	13	5	18	2	5	6	10	13	6	9	19	9	116	6	8	16			3	11	5	2	6	5	2	38		1	21	3
TOTALS	18250	4		561	414	831	212	192	201	380	586	310	452	663	723	4150	408	569	1020	148	175	644	177	168	148	299	326	2157	73	164	1138	237	

SECTION C

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REGION 6 Section	Total S Members	Total Affil- iates	ASSP	BCCE	AP	CAS	NPS	VT	R	IM	AES	IT	IECI	EM	ED	COMP	MTT	EMB	COM	SU	CHMT	CS	Ed	PC	EMC	SMC	GE	PE	EI	MAG	IA	QEA
			1	2	3	4	5	6	7	9	10	12	13	14	15	16	17	18	19	20	21	23	25	26	27	28	29	31	32	33	34	36
Alamogordo-Holloman	27			1	2		1			1	2	1		5	5	1	1					2	1	1		1	1					
Alaska	246	6	6	16	4	7	1	6	1	5	9	4	8	9	3	29	3	4	34	1	1	3	2	8	2	5	8	46	1	2	16	2
Albuquerque	858	25	32	16	46	36	62	7	11	25	31	19	9	42	50	135	21	17	30	10	13	43	9	7	24	14	14	93	3	3	11	25
Boise	179	2	7	7		12	1	3	1	2	2	3	2	8	10	42	1	1	6			1	9	2				34		5	18	2
Buenaventura	732	26	24	25	28	33	2	4	10	12	70	13	5	44	48	173	42	16	35	10	14	24	3	8	11	12	4	9	2	18	17	16
China Lake	149	9	6	4	9	9		3	2	12	16	2	2	3	4	34	15	2	2	3		8		1	3		1	4	1			
Foothill	903	32	22	24	19	41	14	15	13	28	35	16	17	37	22	213	41	34	43	9	12	29	7	8	13	17	11	82	6	17	49	9
Eastern Montana	28			1	1			1		1			1	2		1	1						2					12				
Fort Huachuca	86	2	1	3	4	2	2	1	1	4	2	2	2	7	1	14	3		17			1		1	6		11	1				
Hawaii	398	14	14	12	4	10	5	4		10	15	13	9	17	6	96	8	9	45	2	4	12	1	3	4	9	8	39	2	2	28	7
Idaho	109	4	2	2	1	3	11		1	4	1		1	6	4	27	3	3	2	1		4	1	1			21					
Las Vegas	127	4	2	7	7	3	8	3		7	3		3	3	3	21	7	2	5			3	2	3	2		2	25		1	1	4
Los Alamos	185	24	3	2	1	6	38	3	2	3		1	5	4	9	43	4	2	3			6		3	1	2	2	7	4	3	5	23
Met Los Angeles	1198	45	71	38	22	59	16	10	12	23	44	39	25	21	55	224	24	40	68	11	13	60	6	14	15	28	9	126	9	23	55	38
Montana	118	2	2	3	3	6	2	3	1	1	1	3	3	6	3	26	4	1	8			6	3	3		3	2	20				
Oakland-East Bay	2756	128	101	66	33	189	111	29	34	73	44	43	55	81	171	620	56	103	135	17	29	108	11	24	15	49	20	253	20	26	177	64
Orange County	3575	164	138	113	83	177	57	31	57	64	214	84	59	129	171	937	103	106	209	42	64	134	15	33	36	57	18	175	11	58	150	50
Phoenix	2157	39	52	70	40	116	22	35	46	38	81	36	34	60	160	529	79	28	129	20	44	66	21	19	16	25	10	276	10	11	59	25
Portland	1924	65	46	46	15	82	16	19	22	42	23	18	42	49	118	445	31	62	60	18	25	47	16	17	16	29	6	427	9	10	147	21
Richland	232	5	5	1		8	15	2		7	2	2	13	8	4	37	1	8	3	5		10	3	1		7	3	65	1	1	14	6
Sacramento	916	23	34	41	11	65	6	20	7	21	15	15	21	27	24	226	8	58	57	10	7	35	13	4	2	23	7	104	2	7	33	13
San Diego	2331	115	111	67	65	111	56	16	43	54	119	94	26	83	113	552	68	52	157	19	39	92	13	17	29	49	21	136	7	33	34	55
San Fernando Valley	1910	76	78	57	77	87	17	21	52	37	162	43	23	74	67	451	109	47	102	13	41	80	15	13	33	45	13	56	5	33	37	22
San Francisco	1670	86	47	60	19	69	25	25	18	35	31	27	37	60	73	342	64	48	114	10	14	44	11	23	8	30	10	263	5	15	126	17
San Gabriel Valley	978	36	35	27	27	42	14	11	13	24	46	34	6	26	38	205	36	26	64	14	11	30	4	8	9	19	17	95	4	17	41	35
Santa Barbara	762	21	48	18	28	47	14	7	8	15	42	21	16	25	37	165	34	23	37	21	18	22	10	4	12	15	13	13	2	21	10	16
Santa Clara Valley	10147	373	443	302	182	605	134	65	182	205	312	244	119	368	1102	2583	413	203	756	114	217	282	56	79	79	207	49	264	30	240	130	182
Santa Monica Bay	1885	98	110	48	48	114	24	10	28	28	127	84	16	50	87	458	79	60	153	7	28	87	8	18	16	52	12	26	3	24	26	54
Seattle	2568	122	108	74	84	135	32	29	26	59	149	44	51	109	38	536	52	93	135	41	23	88	16	25	35	37	25	286	5	19	185	29
South Bay Harbor	2537	107	110	70	96	127	35	18	40	31	214	96	23	70	163	558	153	40	221	17	35	115	7	12	27	40	13	53	4	29	76	44
Spokane	314	3	5	13	11	18	2	5	3	6	5	4	12	15	4	72	6	4	12	1	3	16	6		3	7	3	54	1	1	20	3
Tucson	628	15	22	20	17	38	4	9	10	13	19	12	10	25	41	135	16	23	26	4	22	14	8	3	9	14	11	61	1	10	12	19
Utah	839	31	51	33	18	32	8	4	6	16	24	16	17	23	35	245	20	43	31	12	7	28	14	11	7	9	7	65	1	5	44	7
Vandenberg	115	2	2	6	1	4	1	1	1	2	13	1	1	6	4	39						1	4	1	3		2	6		1	2	1
Wenatchee	34			4	1	1		1			1			1	1	3			3								1	14			3	
TOTALS	43621	1704	1738	1297	1007	2294	756	421	651	907	1874	1034	674	1503	2668	10221	1506	1159	2717	432	686	1512	287	376	432	805	323	3221	149	635	1546	790

SECTION C

Table 2 - Society Membership, by Region, by Section, by Society - 1980

REGION 7		Total 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	CHMT 21	CS 23	Ed 25	PC 26	EMC 27	SMC 28	GE 29	PE 31	EI 32	MAG 33	IA 34	QEA 36	
Bay Quinte	304	2	14	6	2	17	3	3	2	11	7	8	12	6	2	61	3	11	19	2	2	14	2	3	1	7	2	31	6	9	38			
Canadian Atlantic	263	2	9	11	14	11	2	6	1	10	10	4	10	8	5	41	4	17	19	3	1	14	4	6	3	3	7	21	2	1	13	3		
Hamilton	703	4	23	30	6	35	9	2	8	21	14	12	34	28	14	135	10	20	37	7	5	34	13	5	2	12	2	94	9	5	67	10		
Kitchener-Waterloo	543	2	23	20	10	47	1	5	3	7	9	16	13	19	30	136	16	16	38	2	4	26	8	11	2	17	1	31	6	5	19	2		
London	292	2	10	17	5	18			2		4	6	1	17	15	4	65	3	11	16	5	3	8	5	6	2	3	3	30	2	2	26	3	
Montreal	2317	30	80	95	33	103	29	35	26	56	43	46	89	80	45	423	43	68	212	18	23	96	29	26	15	57	8	286	38	18	159	38		
New Brunswick	103		2	4	2	3				1	2	2	5	1		29	2	2	5	1		1	4	2		4	1	18			10	2		
Newfoundland-Labrador	90	1	5	3	2	7					1	3	3	1		17	2	5	5			1	3	3		3	5	12			1	4	1	
Northern Canada	473	9	9	16	8	23	8	9	9	11	9	4	21	19	7	94	12	18	26	2	4	27	4	12	2	8	3	62	1	1	38	6		
Ottawa	1782	41	89	90	46	100	15	29	19	56	81	55	22	62	56	409	56	41	271	7	17	46	10	29	21	35	12	54	6	2	33	13		
Quebec	201	4	11	20	6	7			2	3	9	5	4	8	1	48	5	5	17			6	4	4		6	2	16	4		5	3		
Saint Maurice	47		5			1	2	1			2			3	1		8	1	1	4	1		1	1	1		2	6	1	1	4			
Saskatchewan	290	7	8	13	3	14	3	3	3	5	8	4	10	16	7	55	3	11	24			4	12	9	6	10	30	3	4	18	4			
Southern Alberta	557	11	35	30	4	32	8	3	5	17	12	6	30	19	13	102	6	12	24	11	4	23	4	7	11	17	62	2	2	48	10			
Toronto	3007	60	89	158	42	167	40	70	32	82	56	50	111	98	58	621	43	81	211	25	24	105	38	31	17	51	21	379	39	20	211	38		
Vancouver	1126	25	28	59	14	33	10	19	11	33	16	12	47	25	14	235	10	41	86	10	10	47	10	10	9	31	5	166	11	8	106	10		
Victoria	111	10	4	6		6	2	4	1	2	3	1	4	4	1	33		2	5			3	3	3		3	12			8	1			
Winnipeg	605	11	24	31	16	41	7	11	8	14	11	10	20	22	8	95	17	27	43		2	7	21	9	17	4	10	3	72	6	9	34	6	
TOTALS	12811	221	463	614	213	665	139	205	131	341	293	238	459	425	266	2607	235	389	1062	96	109	487	157	182	78	270	95	1382	134	88	841	150		
REGION 8		Total 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	CHMT 21	CS 23	Ed 25	PC 26	EMC 27	SMC 28	GE 29	PE 31	EI 32	MAG 33	IA 34	QEA 36	
Austria	169	5	137	81	55	189	48	22	30	80	67	109	49	58	132	398	52	109	190	26	27	143	39	12	18	89	15	69	12	34	44	27		
Benelux	2358	43	52	27	38	55	7	7	18	25	24	22	18	10	35	99	44	33	55	14	14	30	9	11	11	18	8	17	5	3	11	16		
Denmark	736	6	14	8	15	21	5	2	1	6	9	10	12	5	13	30	20	16	23	5	4	36	7	3	1	10	40	6	6	18	4			
Egypt	350		33	31	27	41	9	2	8	30	10	21	22	19	26	142	26	22	46	6	13	41	5	2	8	32	9	10	6	7	13	9		
Finland	676	8	67	29	37	76	37	16	39	60	65	71	47	32	73	201	70	39	110	37	42	84	23	11	24	46	19	90	24	45	45	41		
France	1600	22	79	30	42	107	15	19	32	47	53	56	31	44	97	287	77	40	119	29	29	74	21	10	16	52	17	69	17	34	31	42		
Germany (West)	1616	94	34	21	27	58	6	12	11	17	27	39	46	31	22	109	24	18	71	1	7	74	11	1	10	27	7	77	10	10	49	22		
Greece	879	5	5		5	6			2	3			4	3	1	13	5	3	8			6	2		2		1	1	12		5			
Iran	86		53	17	27	48	11	6	20	27	43	40	37	26	36	138	43	35	84	15	16	55	10	9	10	25	6	17	7	16	25	23		
Israel	929	12	31	23	49	63	18	13	24	34	46	43	25	19	67	103	66	45	78	23	19	46	14	13	15	34	9	35	8	13	21	25		
Middle & South Italy	1024	5	52	36	28	81	20	15	33	49	17	48	60	30	77	238	32	71	106	16	32	78	12	14	12	43	8	69	15	17	52	23		
North Italy	1384	21	26	5	16	22	3	3	15	9	19	21	12	15	14	62	14	8	35	8	8	25	5	4	4	17	10	21	5	4	10	8		
Norway	428	14	1	1	2	4			1	2	2				6	7	4	1	3	1	5	7	3	1	2	4	10	1	2		1			
Poland	75	1	110	65	54	140	25	18	36	84	49	89	85	48	74	244	71	115	128	21	33	102	63	17	17	95	15	67	13	25	65	30		
Spain	1998	9	99	48	37	97	22	28	42	86	48	75	34	31	59	267	57	82	95	18	26	83	24	18	31	56	17	67	23	21	33	26		
Sweden	1650	10	85	48	38	94	25	12	35	63	36	59	52	54	70	261	45	46	115	22	41	63	25	16	39	30	12	85	19	24	40	32		
Switzerland	1586	17	116	62	84	140	30	30	41	67	64	72	76	69	104	418	116	55	197	36	25	109	29	43	25	51	14	179	19	29	86	29		
U K & Rep of Ire	2415	60	5	11	4	15	5	1	8	12	3	6	14	7	13	33	7	5	19	1	7	24	5	1	3	11	15	2	3	11	4			
Yugoslav	255	3	67	71	53	109	12	19	23	61	30	49	72	89	54	233	59	53	141	22	15	125	30	27	10	42	21	250	15	17	92	22		
COUNTRIES OUTSIDE SECTION	1883	11	1076	618	642	1377	300	226	428	768	616	843	700	594	978	3305	838	805	1633	306	365	1212	340	220	257	688	188	1210	207	314	655	388		
TOTALS	22097	346																																

SECTION C

Table 2 - Society Membership, by Region, by Section, by Society - 1980

REGION 9	Total 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	CHMT 21	CS 23	Ed 25	PC 26	EMC 27	SMC 28	GE 29	PE 31	EI 32	MAG 33	IA 34	QEA 36
Argentina	1457	11	52	62	22	167	18	24	6	85	37	28	102	19	77	185	32	85	76	21	22	85	13	4	11	40	12	64	11	9	68	20
Bahia	174	1	2	7	7	9	3	1	1	8	1	3	11	3	1	11	6	10	13			4	4	3		1	1	34	2	27	1	
Bolivia	32				1	2	1																									
Brazilia	53		1	1	1	5			1	1	1		1	3		8						2	4	2	1		2	1	12	1	4	
Central America	319		3	8	4	18		6		7	3	3	14	20	2	40	3	7	18	1		13	9	4		9	68	1	3	53	2	
Chile	419	2	7	16	11	27	5	5	1	12	13	6	33	14	9	69	8	26	30	2	4	30	5	4	1	10	3	22	2	3	38	3
Colombia	1227	2	18	28	19	88	14	4	1	25	26	47	87	53	32	213	15	65	62	4	7	63	18	12	4	75	4	129	9	4	97	4
Ecuador	378	1	5	10	13	17	2	2	1	7	1	3	24	11	9	31	8	14	23	3	2	21	6	2		4	90	6	1	60	2	
Jamaica	72	1		4	1	2		2	1	4		1	2	8		4		3	11		2	5	1	2		1	2	13		3		
Mexico	1904	14	44	58	41	99	16	16	17	74	25	35	103	90	34	263	35	76	120	19	20	102	72	31	6	79	12	213	41	10	138	15
Monterrey	304	3	8	7	5	6		1	1	12	1	1	30	17	4	48	5	9	21	7	2	19	7	3	3	10		33	6	4	34	
Panama	138		1	5	3	4	1	2	3	3		3	7	7	1	19		5	8		1	1	5	2	2		1	23	3	27	1	
Peru	662		10	37	21	41	6	4	5	29	8	11	61	20	28	46	31	22	46	8	4	39	3	4	3	15	5	69	14	7	59	6
P R & Virgin Is	291	5	6	21	4	13	1	5	2	6	6	2	8	15	1	41	5	8	27	1	1	13	8	6		1	1	64	2	1	21	1
Rio de Janeiro	549	10	16	7	9	18	7	6	11	16	3	8	18	15	8	56	8	9	19	4	5	29	14	7	2	13	4	171	10	5	47	4
Sao Paulo	1412	8	28	53	29	63	10	8	16	55	20	23	89	54	35	148	44	49	69	15	10	77	23	12	8	29	7	263	16	8	129	22
Venezuelan	944	12	26	37	24	31	3	12	9	36	11	11	56	39	19	98	22	26	62	11	10	40	28	9	1	14	4	173	12	3	114	3
COUNTRIES OUTSIDE SECTION	211	7	7	15	3	6	2	7	4	4	3	4	8	15	2	27	4	3	19	1	1	4	6	3	1	3	2	34	2	2	18	1
TOTALS	10546	77	234	376	218	616	89	105	80	385	159	192	655	403	263	1308	227	417	631	99	93	553	221	109	41	308	56	1484	139	62	938	85

31

REGION 10	Total 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	CHMT 21	CS 23	Ed 25	PC 26	EMC 27	SMC 28	GE 29	PE 31	EI 32	MAG 33	IA 34	QEA 36
Australian	2715	46	114	120	68	186	20	33	28	82	57	61	144	77	86	525	80	99	206	27	28	135	45	27	16	70	11	196	18	12	113	31
Bangalore	228	1	5	6	4	12	2	2	3	11	4	2	19	11	11	34	3	2	10	1	5	15	2	6	1	4		28	2	1	19	3
Bombay	533		6	14	4	15	5	3	11	26	1	2	58	23	25	98	8	8	15	3	14	23	4	4		11	2	74	11	5	55	5
Calcutta	188		5	7	8	12				14	1	3	13	4	8	24	5	10	8	3	2	8	1			2	4	25	2	12	5	
Delhi	345	1	16	10	11	22	5		7	5	15	3	15	12	18	34	21	6	19	2	5	18	2	1	2	9	1	54	1	4	24	4
Hong Kong	1927	10	41	223	14	140	7	9	8	39	28	14	61	96	80	519	20	23	165	6	23	72	10	19	2	11	3	194	12	8	67	13
Korea	2356	4	131	58	56	190	42	15	22	65	73	107	92	26	117	319	89	87	185	42	20	178	21	20	18	103	24	67	19	28	60	82
Madras	248		12	8	11	9	2	4	2	6	5	4	15	8	9	44	5	7	11	3	3	9	3	3	3	4	2	33	3	2	16	2
Malaysia	170	2	3	12	1	15	1	1	4	4	1	2	7	16	4	38	2	6	10	7	5		1	1	5	1	5	14	2	2	6	
New Zealand North	223	5	4	10	7	17		2	1	10	2	4	20	9	2	49	3	4	12	1	4	4	1	2		5	3	18	4		23	2
New Zealand South	77		3	2	4	3		1	2		2		1	1	21	1	8	7		1	5	1	1	1		4	1	7		1		
Nigeria	360	1	10	27	11	25	1	4	3	11	3	7	24	40	4	18	7	7	29		2	18	9	4	2	3	4	60	5	2	19	1
Pakistan	90			5	6	3			1	3	3	1	4	7	6	7	6			7	1	1	2	2			19		4	2		
Philippines	135		1	11	1	10	2	1	1	2	2	1	6	17		24	1	1	16		4	6		2		2	16	2		5	1	
Tapei	689	1	42	33	10	40	5	6	4	26	13	27	35	25	60	122	21	12	46	10	10	40	5	1	2	25	5	21	3	4	21	15
Singapore	544	6	11	26	8	37	2	6	6	18	12	9	28	36	19	133	6	8	35	2	20	23	8	6	1	8	2	40	1	28	5	
South Africa	186	6	9	4	4	15		3	3	9	10	8	11	8	4	23	7	3	14	2	1	12	3	1	1	5	3	17	1	8		
Thailand	508	3	7	15	9	44	7	3	4	15	8	9	28	10	27	67	13	11	26	11	7	39	5	4	4	5	2	62	6	12	36	12
Tokyo	7286	36	285	221	235	394	127	141	143	198	159	269	183	115	509	801	377	192	521	169	187	304	88	57	110	258	76	307	134	235	183	309
US Military APO/FPO	414	12	19	14	11	18	4	5	1	8	28	15	1	23	9	102	12	8	62	1	2	13	2	6	2	7	2	20	1	14	4	
COUNTRIES OUTSIDE SECTION	308	3	2	11	6	23		3	2	12	5	8	14	25	8	31	7	5	33	3	1	20	10	5	1	2		50	1	3	15	2
TOTALS	19530	137	726	837	489	1230	232	242	253	563	432	556	779	589	1006	3033	694	507	1437	287	347	949	222	170	168	545	141	1322	225	323	729	497

SECTION CTABLE 3 - IEEE SOCIETY CHAPTER ACTIONS IN 1980

<u>Region/Section</u>	<u>New Chapters</u>	<u>Change in Status of Existing Chapter</u>	<u>Dissolving</u>
<u>REGION 1</u>			
Buffalo	COMP-16		
Mid-Hudson	COMP-16		
Mid-Hudson	ED-15		
New York	BCCE-02		
North Jersey	IA-34		
<u>REGION 2</u>			
Northern Virginia	CS-23		
Pittsburgh	MAG-33		
Washington	ASSP-01		
Washington	IA-34		
Washington	QEA-36		
<u>REGION 3</u>			
Charlotte	COMP-16		
Orlando	ED-15		
<u>REGION 4</u>			
Chicago	ED-15		
Fort Wayne	COMP-16		
<u>REGION 5</u>			
Denver	SU-20		
Houston	ASSP-01		
<u>REGION 6</u>			
Sacramento	EMB-18		
Santa Clara Valley	EM-14		
Santa Clara Valley	SU-20		
<u>REGION 7</u>			
Montreal	ASSP-01		
Toronto	AES-10		
<u>REGION 8</u>			
Greece	PE-31		
Switzerland	CAS-01/ED-15		
<u>REGION 9</u>			
Mexico	COMP-16		
Mexico	ED-25		
Sao Paulo	PE-31		
<u>REGION 10</u>			
All India Council	IA-34		
Tokyo	EMC-27		

SECTION C

Table 4 - IEEE Society Chapters - as of 12/31/80

Code	Society Name	No of Chapters		Section/Council	Location			
AES-10	Aerospace & Electronic Systems	27	All India Council	Los Angeles Council	Santa Clara Valley/			
			Baltimore	Mohawk Valley	San Francisco/			
			Central New Eng-land Council	New Jersey Coast	Oakland-East Bay			
			Cleveland	NY/No Jersey	Seattle			
			Dayton	Orlando	Southeastern Mich			
			Denver	Ottawa	Syracuse			
			Fort Wayne	Philadelphia	Toronto			
			Fort Worth	Rochester	Vancouver			
			Houston	Saint Louis	Washington/			
			Long Island	San Diego	Northern Virginia			
			AP-03	Antennas & Propagation	31	Albuquerque	Houston	Santa Clara Valley/
Atlanta	Huntsville	San Francisco/						
Baltimore	Israel	Oakland-East Bay						
Benelux	Long Island/NY	Southeastern Mich						
Canaveral	Los Angeles Council	Seattle						
Central New Eng-land Council	Montreal	Spokane						
Chicago	North Jersey	Syracuse						
Columbus	Orange County	Tokyo						
Dallas	Philadelphia	Vancouver						
Denver	Phoenix	Washington/						
Florida W Coast	Saint Louis	Northern Virginia						
	San Diego							
ASSP-01	Acoustics, Speech & Signal Processing	14				Connecticut	Northern Virginia	Schenectady
						Chicago	Oakland-East Bay	Southeastern Mich
			Cleveland	Ottawa	Switzerland			
			Houston	Philadelphia	Washington			
			Kitchener-Waterloo					
			Montreal					
BCCE-02	Broadcast, Cable & Consumer Electronics	8	Cleveland	New York	Toronto			
			Chicago	Philadelphia	Washington			
			Florida W Coast	Tokyo				
CAS-04	Circuits & Systems	28	Canton	Los Angeles Council	Syracuse			
			Central Indiana	Mid-Hudson	Santa Clara Valley/			
			Central New Eng-land Council	Montreal	San Francisco/			
			Chicago	Ottawa	Oakland-East Bay			
			Cleveland	Philadelphia	Southeastern Mich			
			Delhi	Phoenix	Switzerland			
			Fort Wayne	Portland	Tokyo			
			Hamilton	Princeton	Twin Cities			
			Houston	Sacramento	United Kingdom &			
			Kitchener-Waterloo	Seattle	Republic of Ireland			
				Spokane				

SECTION C

Table 4 - IEEE Society Chapters - as of 12/31/80

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>		<u>Section/Council Location</u>				
COMM-19	Communications	53	Alabama	Hamilton	Pittsburgh			
			All India Council	Houston	Phoenix			
			Atlanta	Israel	Rochester			
			Baltimore	Kansas City	Sacramento			
			Canton	Kitchener-Waterloo	San Diego			
			Central Illinois	Long Island	Santa Clara Valley/			
			Central New Eng- land Council	Los Angeles Council	Oakland-East Bay			
			Charlotte	Maine	San Francisco			
			Chicago	Mexico	Schenectady			
			Columbus	Miami	Seattle			
			Dallas	Mohawk Valley	Southeastern Mich			
			Denver	Montreal	Switzerland			
			Eastern NC/ Central NC/ Winston-Salem	New Jersey Coast	Syracuse			
			Florida W Coast	New Orleans	Tokyo			
			Fort Huachuca	New York	Toronto			
			Fort Wayne	North Jersey	Twin Cities			
				Orlando	Vancouver			
				Ottawa	Winnipeg			
				Philadelphia	Washington/ Northern Virginia			
			CHMT-21	Components, Hybrids & Manufacturing Technology	11	Central New Eng- land Council	Los Angeles Council	Santa Clara Valley/
						Chicago	New Jersey Coast	San Francisco/
Dayton	NY/LI/No Jersey	Oakland-East Bay						
Lehigh Valley	Philadelphia	Tokyo						
	Portland							
CS-23	Control Systems	33	Baltimore	Hamilton	San Diego			
			Buffalo	Huntsville	Santa Clara Valley/			
			Central New Eng- land Council	Kitchener-Waterloo	San Francisco/			
			Chicago	Long Island/NY	Oakland-East Bay			
			Cleveland	Los Angeles Council	Schenectady			
			Columbus	Milwaukee	Southeastern Mich			
			Dallas	North Jersey	Spokane			
			Dayton	Northern Virginia	Toledo			
			Delhi	Philadelphia	United Kingdom & Republic of Ireland			
			Denver	Phoenix	Vancouver			
			Fort Worth	Pittsburgh	Virginia Mountain			
				Sacramento	Wichita			

SECTION C

Table 4 - IEEE Society Chapters - as of 12/31/80

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>					
COMP-16	Computer	79	Akron	Hampton Roads	Sacramento			
			Alabama	Houston	Saint Louis			
			Arkansas	Huntsville	San Diego			
			Atlanta	Kitchener-Waterloo	Sao Paulo			
			Baltimore	Lehigh Valley	Schenectady			
			Binghamton	Long Island	Seattle			
			Bombay	Los Angeles Council	Southern Alberta			
			Broward	Mexico	Southeastern Mich			
			Buffalo	Mid-Hudson	Spokane			
			Canaveral	Milwaukee	Switzerland			
			Central India	Mohawk Valley	Syracuse			
			Central New Eng- land Council	Montreal	Taipei			
			Central Texas	Nebraska	Tokyo			
			Charlotte	New Hampshire	Toledo			
			Chicago	New Jersey Coast	Tucson			
			Cleveland	New Orleans	Twin Cities			
			Columbus	New York	Utah			
			Connecticut	North Jersey	Vancouver			
			Dallas	Oakland-East Bay	Virginia Mountain			
			Dayton	Oklahoma City	Washington			
			Delaware Bay	Orlando	Wichita			
			Denver	Philadelphia	Winnipeg			
			Eastern Shore	Phoenix				
			Florida W Coast	Pittsburgh				
			Fort Huachuca	Portland				
			Fort Wayne	Princeton				
			Fort Worth	Richland				
			France	Rochester				
			Hamilton					
			Ed-25	Education	7	Central New Eng- land Council	New Jersey Coast	
						Hamilton	United Kingdom & Republic of Ireland	
						Los Angeles Council	Utah	
						Mexico		
			EI-32	Electrical Insulation	3	Bay of Quinte/ Hamilton/Kitchener- Waterloo/London/ Toronto	Montreal/Ottawa Tokyo	

SECTION C

Table 4 - IEEE Society Chapters - as of 12/31/80

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>		
EMC-27	Electromagnetic Compatibility	19	Albuquerque	Dayton	San Diego
			Atlanta	Denver	Santa Clara Valley/
			Baltimore	Los Angeles Council	San Francisco/
			Central New Eng- land Council	Long Island/NY	Oakland-East Bay
			Central Texas	Mohawk Valley	Seattle
			Chicago	New Jersey Coast	Tokyo
				Philadelphia	Tucson
					Washington/
					Northern Virginia
ED-15	Electron Devices	33	Albuquerque	Mid-Hudson	Santa Clara Valley/
			All India Council	Milwaukee	San Francisco/
			Central Illinois	New Jersey Coast	Oakland-East Bay
			Central New Eng- land Council	New York/LI	Schenectady
			Chicago	Orlando	Southeastern Mich
			Dayton	Ottawa	Spokane
			Houston	Philadelphia	Switzerland
			Israel	Phoenix	Syracuse
			Kitchener-Waterloo	Pittsburgh	Tokyo
			Lehigh Valley	Portland	Twin Cities
			Los Angeles Council	Princeton	Washington/
				Rochester	Northern Virginia
				Saint Louis	
EM-14	Engineering Management	25	Buffalo	Huntsville	Ottawa
			Canaveral	Kansas City	Philadelphia
			Central India	Los Angeles Council	Pittsburgh
			Central New Eng- land Council	Mexico	Rochester
			Chicago	Miami	Santa Clara Valley
			Dayton	Mohawk Valley	Southeastern Mich
			Denver	Montreal	Spokane
			Houston	Nebraska	Washington/
				North Jersey/NY	Northern Virginia

SECTION C

Table 4 - IEEE Society Chapters - as of 12/31/80

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>					
EMB-18	Engineering in Medicine and Biology	36	Atlanta	Denver	Portland			
			Central Indiana	Houston	Princeton			
			Central New Eng- land Council	Los Angeles Council	Rochester			
			Central Texas-	Memphis	Sacramento			
			(Austin)	Miami	Saint Louis			
			Central Texas-	Milwaukee	Seattle			
			(San Antonio)	Montreal	Southeastern Mich			
			Chicago	Nashville	Tokyo			
			Cincinnati	New Jersey Coast	Twin Cities			
			Cleveland	NY/Long Island	Utah			
			Connecticut	North Jersey	Washington/ Northern Virginia			
			Dallas	Oakland-East Bay				
			Dayton	Philadelphia				
				Pittsburgh				
			GRS-29	Geoscience & Remote Sensing	1	North Jersey		
			IECI-13	Industrial Electronics & Control Instrumentation	12	All India Council	Lehigh Valley	Toledo
Arkansas	Los Angeles Council	Vancouver						
Beaumont	Santa Clara Valley/ San Francisco	Virginia Mountain						
Chicago	Oakland-East Bay							
Cleveland								
Connecticut								
IA-34	Industry Applications	58	Akron	Eastern NC	Rochester			
			Alabama	Hamilton	Sacramento			
			All India Council	Houston	Saint Louis			
			Arkansas	Los Angeles Council	San Francisco			
			Atlanta	Maine	Schenectady			
			Baltimore	Mexico	Seattle			
			Baton Rouge	Miami	Southern Alberta			
			Buffalo	Middle Tennessee	Southeastern Mich			
			Central Illinois	Milwaukee	Spokane			
			Central New Eng- land Council	Montreal	Syracuse			
			Chicago	North Jersey	Tokyo			
			Cincinnati	NY/Long Island	Toledo			
			Cleveland	New Zealand	Toronto			
			Columbus	Oakland-East Bay	Tulsa			
			Connecticut	Oklahoma City	Twin Cities			
			Dallas	Orlando	Vancouver			
			Dayton	Philadelphia	Virginia Mountain			
			Delaware Bay	Phoenix	Washington			
			Denver	Pittsburgh	Wichita			
				Portland				

SECTION C

Table 4 - IEEE Society Chapters - as of 12/31/80

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>		<u>Section/Council Location</u>	
IT-12	Information Theory	16	Buffalo Central New Eng- land Council Central NC/ Eastern NC/ Winston-Salem Dallas Denver	Chicago/Central Ill/ Central Indiana Hamilton Kitchener-Waterloo Los Angeles NY/LI/No Jersey Philadelphia Phoenix	Santa Clara Valley/ San Francisco/ Oakland-East Bay Schenectady Southeastern Mich Washington/ Northern Virginia
IM-09	Instrumentation & Measurement	15	Central Illinois Central New Eng- land Council Chicago Cleveland Denver	Los Angeles Council Montreal NY/LI/No Jersey Ottawa Portland Southeastern Mich	Santa Clara Valley/ San Francisco/ Oakland-East Bay Tokyo Toronto Washington/ Northern Virginia
MAG-33	Magnetics	11	Central New Eng- land Council Houston Los Angeles Council Milwaukee Philadelphia	Pittsburgh Princeton Santa Clara Valley/ San Francisco/ Oakland-East Bay Tokyo	Twin Cities Washington/ Northern Virginia
MTT-17	Microwave Theory & Techniques	38	Albuquerque All India Council Atlanta Baltimore Benelux Canaveral Central Illinois Central New Eng- land Council Chicago Columbus Dallas Denver Florida W Coast Houston	Huntsville Israel Long Island/NY Los Angeles Council Milwaukee Montreal New Jersey Coast North Jersey Orange County Orlando Ottawa Philadelphia Phoenix Portland Princeton	Saint Louis San Diego Santa Clara Valley/ San Francisco/ Oakland-East Bay Schenectady Seattle Southeastern Mich Syracuse Tokyo Washington/ Northern Virginia

SECTION C

Table 4 - IEEE Society Chapters - as of 12/31/80

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>	<u>Section/Council Location</u>		
NPS-05	Nuclear & Plasma Sciences	8	All India Council Central Illinois Central New England Council	Chicago Connecticut Los Angeles Council North Jersey	Santa Clara Valley/ San Francisco/ Oakland-East Bay
PC-26	Professional Communication	2	United Kingdom & Republic of Ireland	Los Angeles Council	
PE-31	Power Engineering	98	Akron Alabama Albuquerque All India Council Argentina Arkansas Atlanta Baltimore Beaumont Berkshire Boston Broward Buffalo Canton Central Illinois Central Indiana Central Texas Charlotte Chattanooga Chicago Cincinnati Cleveland Columbus Connecticut Corpus Christi Dallas Dayton Delaware Denver Eastern NC East Tennessee Erie Florida W Coast	Fort Worth France Greece Hamilton Houston Jacksonville Kansas City Las Vegas Lehigh Valley Los Angeles Council Maine Memphis Mexico Monterrey Miami Mid-Hudson Middle Tennessee Milwaukee/Madison NE Wisconsin Montreal Nashville Nebraska New Hampshire New Orleans NY/Long Island North Jersey Oakland-East Bay Oklahoma City Orlando Ottawa Palm Beach Philadelphia Phoenix	Pittsburgh Portland Princeton Puerto Rico & Virgin Islands Richland Rochester Sacramento Saint Louis San Diego San Francisco Santa Clara Valley Sao Paulo Schenectady Seattle Sharon Shreveport Southern Alberta Southeastern Mich Spokane Syracuse Tokyo Toledo Toronto Tucson Tulsa Twin Cities Utah Vancouver Virginia Mountain Wichita Winnipeg Worcester County Washington/ Northern Virginia

SECTION C

Table 4 - IEEE Society Chapters - as of 12/31/80

<u>Code</u>	<u>Society Name</u>	<u>No of Chapters</u>		<u>Section/Council Location</u>	
QEA-36	Quantum Electronics and Applications	5	Boston Los Alamos	Los Angeles Council New Jersey Coast	Washington
R-07	Reliability	19	Baltimore Binghamton Canaveral/ Daytona Central New Eng- land Council Cleveland Chicago	Connecticut Denver Florida W Coast Los Angeles Council Mohawk Valley Montreal New Jersey Coast NY/Long Island	North Jersey Philadelphia Santa Clara Valley/ San Francisco/ Oakland-East Bay Twin Cities Washington/ Northern Virginia
SU-20	Sonics & Ultrasonics	5	Central New Eng- land Council Pittsburgh	Portland Santa Clara Valley	Washington/ Northern Virginia
SMC-28	Systems, Man & Cybernetics	18	Central New Eng- land Council Cleveland Connecticut Dallas Long Island/NY Los Angeles Council	Mexico Milwaukee New Jersey Coast North Jersey Philadelphia Pittsburgh Schenectady	Santa Clara Valley/ San Francisco/ Oakland-East Bay Southeastern Mich Tokyo Twin Cities Washington/ Northern Virginia
VT-06	Vehicular Technology	23	Canton Central New Eng- land Council Chicago Cincinnati/ Dayton Cleveland Columbus Dallas Denver	Florida W Coast Los Angeles Council Miami NY/LI/No Jersey New Jersey Coast Orlando Philadelphia Pittsburgh Sacramento	Santa Clara Valley/ San Francisco/ Oakland-East Bay Southeastern Mich Tokyo Toronto Vancouver Washington/ Northern Virginia
30	Societies	587*			

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

SECTION D

Table 1 - Society/Group Affiliates, December 31, 1980; 5-Year Comparison

Code No.	Society/Group Name	12/31/80	12/31/79	12/31/78	12/31/77	12/31/76
1	Acoustics, Speech & Signal Processing	8	8	10	10	5
2	Broadcast, Cable & Consumer Electronics	5	4	2	2	2
3	Antennas & Propagation	1	1	1	1	1
4	Circuits & Systems	4	2	2	3	4
5	Nuclear & Plasma Sciences	193	189	172	163	160
6	Vehicular Technology	2	2	3	2	3
7	Reliability	13	13	12	11	10
9	Instrumentation & Measurement	-	-	-	2	1
10	Aerospace & Electronic Systems	5	7	7	8	6
12	Information Theory	7	8	10	9	6
13	Industrial Electronics & Control Instrumentation	-	-	-	2	-
14	Engineering Management	29	27	27	46	48
15	Electron Devices	5	6	6	7	35
16	Computer	5,246	3,943	3,313	2,278	1,566
17	Microwave Theory & Techniques	1	1	2	3	11
18	Engineering in Medicine & Biology	81	68	73	83	91
19	Communications	8	7	5	6	6
20	Sonics & Ultrasonics	8	11	11	13	14
21	Components, Hybrids & Manufacturing Technology	6	5	6	4	3
23	Control Systems	13	11	8	5	4
25	Education	1	1	1	1	1
26	Professional Communication	13	10	10	9	6
27	Electromagnetic Compatibility	4	4	4	4	5
28	Systems, Man & Cybernetics	18	24	22	22	19
29	Geoscience Electronics	6	3	2	4	2
31	Power Engineering	-	-	-	1	-
32	Electrical Insulation	5	5	5	5	8
33	Magnetics	55	52	59	66	68
34	Industry Applications	4	4	1	1	1
35	*Manufacturing Technology	-	-	-	-	-
36	**Quantum Electronics & Applications	36	34	36	34	-
	Totals	5,777	4,450	3,810	2,805	2,086

* The Manufacturing Technology Group and the Parts, Hybrids and Packaging Group merged in 1977 to form the Components, Hybrids & Manufacturing Technology Group (later Society).

** The former Quantum Electronics Council became the Quantum Electronics & Applications Society in 1977.

SECTION E

ORGANIZATIONAL UNITS OF THE IEEE, BY REGION - As of December 31, 1980

<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>1980</u>											
Sections	22	25	42	23	23	35	18	19	17	19	243
Subsections	6	3	9	8	4	5	--	--	7	4	46
Chapters	113	100	61	60	63	102	37	12	12	27	587*
Affiliations & Councils	1	--	4	--	--	2	3	--	2	2	14
Student Branches	75	49	59	46	46	51	38	37	34	19	454
<hr/>											
<u>1979</u>											
Sections	22	25	42	23	23	35	18	19	17	19	243
Subsections	6	3	8	8	3	5	--	--	7	4	44
Chapters	108	95	59	58	61	99	35	10	9	25	559*
Affiliations & Councils	1	1	4	--	--	2	3	--	2	1	14
Student Branches	69	51	56	47	45	52	39	35	31	14	439
<hr/>											
<u>1978</u>											
Sections	22	25	42	23	23	35	18	18	17	19	242
Subsections	6	3	7	8	3	5	--	--	7	4	43
Chapters	107	92	56	59	61	98	34	9	9	23	548*
Affiliations & Councils	1	1	3	--	--	2	3	--	2	1	13
Student Branches	69	48	56	47	44	49	39	33	28	13	426
<hr/>											
<u>1977</u>											
Sections	22	25	42	23	21	36	17	18	17	14	235
Subsections	6	3	7	7	6	5	1	--	7	5	47
Chapters	105	89	53	59	58	95	32	9	8	22	530*
Affiliations & Councils	1	1	3	--	--	2	3	--	--	1	11
Student Branches	69	48	55	47	43	53	38	33	31	12	429

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

Table 1 - IEEE Technical Publications Output - 1980

Periodicals	Editorial Pages	Advertising Pages (1)	Total Pages	Number of Papers	Number of Letters
IEEE SPECTRUM	768	912	1,680	102	88
PROCEEDINGS OF THE IEEE	1,596	36	1,632	117	135
IEEE TRANSACTIONS & JOURNALS	33,134	---	33,134	3,899	1,058
GROUP/SOCIETY MAGAZINES	1,737	483	2,220	222	27
Subtotals	37,235	1,431	38,666	4,340	1,308
<u>Other Publications</u>					
Conference Records(2)	57,298	---	57,298	11,161	---
IEEE PRESS Books	2,568	---	2,568	316	---
Preprints	3,468	---	3,468	485	---
Standards	4,593	---	4,593	58	---
Group/Society Newsletters(3)	2,318	---	2,318	88	---
Subtotals	70,245	---	70,245	12,108	---
<u>Totals</u>	<u>107,480</u>	<u>1,431</u>	<u>108,911</u>	<u>16,448</u>	<u>1,308</u>

- (1) Includes Institute-related advertising material.
- (2) Includes all 1980 Conference Records, actual and projected.
- (3) Produced through IEEE Publishing Services Department.

Table 2 - IEEE TRANSACTIONS and JOURNALS - 1980

	Number of Issues	Editorial Pages	Number of Papers	Number of Letters
ACOUSTICS, SPEECH, & SIGNAL PROCESSING	6	807	75	53
AEROSPACE & ELECTRONIC SYSTEMS	6	918	71	45
ANTENNAS & PROPAGATION	6	996	89	68
AUTOMATIC CONTROL	6	1,304	127	161
BIOMEDICAL ENGINEERING	12	804	74	48
BROADCASTING	4	166	15	---
CABLE TELEVISION*	4	168	22	---
CIRCUITS AND SYSTEMS	12	1,343	118	75
COMMUNICATIONS	12	2,096	230	39
COMPONENTS, HYBRIDS, & MANUFACTURING TECHNOLOGY	4	692	92	4
COMPUTERS	12	1,199	86	74
CONSUMER ELECTRONICS	4	818	74	---
EDUCATION	4	244	42	5
ELECTRICAL INSULATION	6	534	54	9
ELECTROMAGNETIC COMPATIBILITY	4	360	41	6
ELECTRON DEVICES	12	2,392	318	28
ELECTRON DEVICES LETTERS	12	328	---	81
ENGINEERING MANAGEMENT	4	136	13	2
GEOSCIENCE & REMOTE SENSING	4	392	56	---
INDUSTRIAL ELECTRONICS & CONTROL INSTRUMENTATION	4	392	46	15
INDUSTRY APPLICATIONS	6	957	103	1
INFORMATION THEORY	6	793	57	86
INSTRUMENTATION & MEASUREMENT	4	544	111	6
MAGNETICS	6	1,492	327	13
MICROWAVE THEORY & TECHNIQUES	12	1,559	210	19
NUCLEAR SCIENCE	6	1,924	296	3
OCEANIC ENGINEERING	4	256	27	1
PATTERN ANALYSIS & MACHINE INTELLIGENCE	4	620	44	29
PLASMA SCIENCE	4	548	88	4
POWER APPARATUS & SYSTEMS	6	2,533	289	---
PROFESSIONAL COMMUNICATION	4	277	56	---
QUANTUM ELECTRONICS	12	1,454	171	73
RELIABILITY	5	476	128	2
SOFTWARE ENGINEERING	6	636	63	4
SOLID-STATE CIRCUITS	6	1,128	144	21
SONICS & ULTRASONICS	6	436	36	10
SYSTEMS, MAN & CYBERNETICS*	12	1,004	60	73
VEHICULAR TECHNOLOGY	4	408	46	---
<u>Totals</u>	<u>238</u>	<u>33,134</u>	<u>3,899</u>	<u>1,058</u>

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

Table 3 - 1980 Nonmember Subscriptions to IEEE Periodicals
(Data as of 12/31/80)

	<u>Regions 1-6</u>	<u>Region 7</u>	<u>Region 8</u>	<u>Region 9</u>	<u>Region 10</u>	<u>Total</u>
SPECTRUM	1617	222	1093	131	687	3750
PROCEEDINGS	1616	154	1749	150	940	4609
<u>TRANSACTIONS and JOURNALS</u>						
ACOUSTICS, SPEECH & SIGNAL PROCESSING	803	85	741	55	428	2112
AEROSPACE & ELECTRONIC SYSTEMS	806	73	720	40	341	1980
ANTENNAS & PROPAGATION	802	78	771	86	416	2153
AUTOMATIC CONTROL	882	86	866	110	629	2573
BIOMEDICAL ENGINEERING	874	90	673	57	420	2114
BROADCASTING	605	69	414	51	293	1432
CABLE TELEVISION	588	70	361	37	245	1301
CIRCUITS & SYSTEMS	894	77	796	80	546	2393
COMMUNICATIONS	968	108	995	106	552	2729
COMPONENTS, HYBRIDS, & MANUFACTURING TECHNOLOGY	734	62	498	43	312	1649
COMPUTERS	1230	128	1315	113	697	3483
CONSUMER ELECTRONICS	689	66	494	54	371	1674
EDUCATION	621	66	408	59	315	1469
ELECTRICAL INSULATION	643	61	447	58	336	1545
ELECTROMAGNETIC COMPATIBILITY	676	67	493	46	287	1569
ELECTRON DEVICES	960	79	830	64	509	2442
ELECTRON DEVICE LETTERS	587	55	311	26	231	1210
ENGINEERING MANAGEMENT	763	81	473	59	327	1703
GEOSCIENCE & REMOTE SENSING	644	79	382	42	263	1410
INDUSTRIAL ELECTRONICS & CONTROL INSTRUMENTATION	716	83	544	121	458	1922
INDUSTRY APPLICATION	778	89	566	120	502	2055
INFORMATION THEORY	862	78	754	70	480	2244
INSTRUMENTATION & MEASUREMENT	884	94	755	110	527	2370
MAGNETICS	802	69	603	44	424	1942
MICROWAVE THEORY & TECHNIQUES	862	80	833	68	439	2282
NUCLEAR SCIENCE	803	80	613	49	351	1896
OCEANIC ENGINEERING	624	65	346	25	249	1309
PATTERN ANALYSIS AND MACHINE INTELLIGENCE	696	68	424	31	294	1513
PLASMA SCIENCE	615	58	387	30	260	1350
POWER APPARATUS & SYSTEMS	870	99	871	171	667	2678
PROFESSIONAL COMMUNICATION	647	74	392	38	264	1415
QUANTUM ELECTRONICS	862	76	705	40	385	2068
RELIABILITY	818	78	733	60	396	2085
SOFTWARE ENGINEERING	1022	108	941	82	503	2656
SOLID STATE CIRCUITS	907	76	773	59	485	2300
SONICS & ULTRASONICS	699	68	486	44	322	1619
SYSTEMS, MAN & CYBERNETICS	788	83	620	64	479	2034
VEHICULAR TECHNOLOGY	618	74	414	37	292	1435
<u>Total TRANSACTIONS and JOURNALS</u>	<u>29642</u>	<u>2980</u>	<u>23748</u>	<u>2449</u>	<u>15295</u>	<u>74114</u>
<u>Magazines</u>						
COMMUNICATIONS MAGAZINE	623	64	344	33	247	1311
COMPUTER	1280	147	984	93	514	3018
ENGINEERING MANAGEMENT REVIEW	593	56	316	29	230	1224
CIRCUITS and SYSTEMS MAGAZINE	583	55	327	29	240	1234
"All" Group/Society Periodicals*	543	54	291	25	216	1129

*These are subscriptions to the full array of Group/Society periodicals. They are included in the above numbers for individual titles.

Table 4 - Microfiche Subscriptions
(Data as of 12/31/80)

<u>Periodicals</u>	<u>Member</u>	<u>Nonmember</u>	<u>Total</u>
SPECTRUM	360	45	405
PROCEEDINGS	782	67	849
TRANSACTIONS and JOURNALS	6,394	2,311	8,705
Magazines	<u>1,098</u>	<u>226</u>	<u>1,324</u>
<u>Totals</u>	8,634	2,649	11,283

SECTION G

Coopers
& Lybrand

certified public accountants

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

We have examined the balance sheets of THE INSTITUTE of ELECTRICAL and ELECTRONICS ENGINEERS, INC. as of December 31, 1980 and 1979, and the related statements of income, expenses and changes in fund balances for the years then ended. Our examinations were made in accordance with generally accepted auditing standards and, accordingly, included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the financial statements referred to above present fairly the financial position of The Institute of Electrical and Electronics Engineers, Inc. at December 31, 1980 and 1979, and the results of its operations and changes in its fund balances for the years then ended in conformity with generally accepted accounting principles applied on a consistent basis.

Coopers Lybrand

New York, New York
March 24, 1981.

THE INSTITUTE of ELECTRICAL and ELECTRONICS ENGINEERS, INC.
BALANCE SHEETS, December 31, 1980 and 1979

ASSETS:	1980			Total	1979 Total
	Unrestricted Operating Funds	Restricted Special Purpose Funds	Endowment Funds		
Cash, including savings accounts of \$29,100 in 1980 and \$116,100 in 1979	\$ 247,300	\$ 15,500	\$ 1,100	\$ 263,900	\$ 374,000
Eurodollar notes, repurchase agreements and certificates of deposit (at cost, which approximates market)	9,493,800	134,600	27,900	9,656,300	6,840,300
Accounts receivable, less allowance for doubtful accounts of \$284,600 in 1980 and \$184,600 in 1979	2,107,900	13,500		2,121,400	2,080,400
Investments (Notes 2, 3 and 7)	10,020,700	85,500	137,100	10,243,300	8,402,200
Prepaid expenses, inventories and other assets	2,018,700			2,018,700	1,209,900
Land, building and equipment, at cost, less accumulated depreciation (Note 4)	3,909,600			3,909,600	3,143,300
Advances to United Engineering Trustees, Inc. (Note 6)	265,000			265,000	265,000
Total assets	<u>\$28,063,000</u>	<u>\$249,100</u>	<u>\$166,100</u>	<u>\$28,478,200</u>	<u>\$22,315,100</u>
LIABILITIES and FUND BALANCES:					
Accounts and accrued expenses payable	\$ 4,702,400			\$ 4,702,400	\$ 3,816,900
Deposits by sections and regions (Note 7)	250,400			250,400	330,500
Mortgage payable (Note 5)	745,900			745,900	795,400
Deferred income:					
Membership dues	5,138,500			5,138,500	2,701,000
Society/council revenues	4,505,500			4,505,500	2,914,800
Subscriptions and other	1,198,200			1,198,200	1,003,800
Total liabilities	16,540,900			16,540,900	11,562,400
Fund balances	11,522,100	\$249,100	\$166,100	11,937,300	10,752,700
	<u>\$28,063,000</u>	<u>\$249,100</u>	<u>\$166,100</u>	<u>\$28,478,200</u>	<u>\$22,315,100</u>

See notes to financial statements.

STATEMENTS of INCOME, EXPENSES and CHANGES in FUND BALANCES
for the years ended December 31, 1980 and 1979

	1980			Total	1979 Total
	Unrestricted Operating Funds	Restricted Special Purpose Funds	Restricted Endowment Funds		
Income:					
Membership dues	\$ 5,601,000			\$ 5,601,000	\$ 5,303,500
Fees and assessments	2,933,800			2,933,800	2,700,300
Periodical subscriptions, other publication activities and educational products and services	14,881,200			14,881,200	12,062,500
Conventions, conferences and other technical activities	2,347,100			2,347,100	1,616,400
Net investment income (loss) (Note 8)	2,780,000	\$ 55,100	(\$ 5,500)	2,829,600	1,419,400
Miscellaneous	634,000	27,500		661,500	667,200
Total	<u>29,177,100</u>	<u>82,600</u>	<u>(5,500)</u>	<u>29,254,200</u>	<u>23,769,300</u>
Expenses:					
Program services:					
Publishing	15,797,800			15,797,800	12,464,400
Educational activities	1,175,100			1,175,100	1,215,400
Convention and other technical activities	1,938,400			1,938,400	1,201,300
Support of regions, sections and branches	1,524,700			1,524,700	1,277,300
Member records and services	2,923,700			2,923,700	2,674,900
Special regional projects	1,446,900			1,446,900	1,219,700
Medals, awards and related costs		40,700		40,700	24,500
Supporting services:					
General and administrative	2,930,100			2,930,100	2,504,600
Special renovation and relocation costs	292,200			292,200	
Total	<u>28,028,900</u>	<u>40,700</u>		<u>28,069,600</u>	<u>22,582,100</u>
Excess (deficiency) of income over expenses	1,148,200	41,900	(5,500)	1,184,600	1,187,200
Fund balances, beginning of year	<u>10,373,900</u>	<u>207,200</u>	<u>171,600</u>	<u>10,752,700</u>	<u>9,565,500</u>
Fund balances, end of year	<u>\$11,522,100</u>	<u>\$249,100</u>	<u>\$166,100</u>	<u>\$11,937,300</u>	<u>\$10,752,700</u>

See notes to financial statements.

NOTES to FINANCIAL STATEMENTS

1. The Institute:

The Institute is a scientific and educational organization organized for the advancement of the theory and practice of electrical engineering, electronics engineering, radio and the allied branches of engineering and related arts and sciences.

Implementation of the Institute's objectives, while not limited to, is primarily performed through sections, regions, societies and councils. Sections and regions are unincorporated geographical subdivisions of IEEE. Societies and councils are unincorporated units within IEEE formed to serve the specialized technical interests of members and to coordinate these with the local activities of the sections and the broader activities of the Institute. The societies and councils promote the technical interests of their members through symposia, conferences and various publications.

2. Summary of Significant Accounting Policies:

Reporting entity:

The financial statements include the accounts of societies and councils. The books and records of the sections and regions are maintained by the respective treasurers of each unit and are not included in the accompanying financial statements.

Funds:

Unrestricted operating funds can be utilized to carry out any of the purposes of the Institute.

Restricted funds consist of special purpose and endowment funds which have been donated to the Institute and carry donor restrictions. The principal of an endowment cannot be expended and only the income earned can be used as designated by the donor. Special purpose funds can be utilized only for specified purposes as designated by the donor and the contribution may be expended in total. The latter funds are designated principally for awards and medals.

Income recognition:

Income from membership dues and yearly periodical subscriptions is recognized during the year to which it pertains.

Investments:

Investments are carried at market value. Realized gains and losses on the sale of investments are determined on a first-in, first-out cost basis.

Depreciation and amortization:

Depreciation is provided on a straight-line basis over the estimated useful life of the asset. Commencing January 1, 1980, the estimated useful life of buildings

Continued

[4]

NOTES to FINANCIAL STATEMENTS, Continued

was reduced from forty-eight to thirty-three years. Lives of eighteen months to ten years are used for office furniture and equipment. Leasehold improvements are being amortized on a straight-line basis over ten years or the lease term, whichever is shorter.

3. Investments:

	1980		1979	
	Cost	Market Value	Cost	Market Value
Investment pool:				
Equity securities	\$3,464,400	\$ 5,367,800	\$2,837,200	\$3,293,100
Corporate obligations	17,400	17,400	437,000	437,000
Due from brokers and accrued interest and dividends receivable	57,600	57,600	102,600	102,600
Equity in fixed income fund	<u>2,364,900</u>	<u>2,023,000</u>	<u>2,172,100</u>	<u>1,934,800</u>
	<u>5,904,300</u>	<u>7,465,800</u>	<u>5,548,900</u>	<u>5,767,500</u>
Fixed income fund:				
U.S. Government obligations	1,040,200	857,800	910,000	815,100
Corporate obligations	2,948,700	2,382,000	2,214,500	1,789,700
Eurodollar notes	1,055,300	1,055,300	1,375,300	1,375,300
Due from brokers and accrued interest	136,400	136,400	258,200	258,200
Investment pool share of equity in the fund	<u>(2,364,900)</u>	<u>(2,023,000)</u>	<u>(2,172,100)</u>	<u>(1,934,800)</u>
	<u>2,815,700</u>	<u>2,408,500</u>	<u>2,585,900</u>	<u>2,303,500</u>
Other investments	<u>349,900</u>	<u>369,000</u>	<u>352,200</u>	<u>331,200</u>
	<u>\$9,069,900</u>	<u>\$10,243,300</u>	<u>\$8,487,000</u>	<u>\$8,402,200</u>

4. Land, Building and Equipment:

Fixed assets and the related accumulated depreciation at December 31, 1980 and 1979 are as follows:

	1980		1979	
	Cost	Accumulated Depreciation	Cost	Accumulated Depreciation
Building	\$2,799,500	\$ 263,300	\$2,369,000	\$ 184,400
Furniture and equipment	1,839,700	1,003,700	1,393,900	742,500
Leasehold improvements	<u>391,500</u>	<u>206,100</u>	<u>268,300</u>	<u>189,800</u>
	5,030,700	1,473,100	4,031,200	1,116,700
Land	<u>352,000</u>		<u>228,800</u>	
Total	<u>\$5,382,700</u>	<u>\$1,473,100</u>	<u>\$4,260,000</u>	<u>\$1,116,700</u>

Continued

[5]

NOTES to FINANCIAL STATEMENTS, Continued

Depreciation expense amounted to \$383,900 and \$185,300 in 1980 and 1979, respectively.

5. Mortgage Payable:

In 1979, the Institute borrowed \$800,000 under a 10-year mortgage loan bearing interest at 7-1/2% per annum. The loan arranged through the New Jersey Economic Development Authority was used to finance the construction of a distribution facility in Piscataway, New Jersey, and related employee relocation costs. Such loan requires payments, including interest, of \$113,956 per annum.

6. Commitments:

In accordance with the Founder's Agreement between the Institute and the United Engineering Trustees, Inc., the Institute has agreed to maintain permanently its principal offices in the United Engineering Center and to pay a pro rata portion of the operating costs of the building. The Institute's share of such costs was \$307,000 and \$279,200 during 1980 and 1979, respectively. The Institute has advanced \$265,000 to United Engineering Trustees, Inc., which advance is repayable only out of available reserve funds on dissolution of United Engineering Trustees, Inc. and carries interest at an annual rate of 4%.

7. Transactions with Sections and Regions:

The investment pool and other investments include deposits by certain sections and regions.

The Institute paid approximately \$697,800 in 1980 and \$652,000 in 1979 to the sections and regions for support of their activities.

8. Net Investment Income:

Net investment income consists of:

	<u>1980</u>	<u>1979</u>
Interest and dividends (net of advisory fees)	\$1,619,300	\$1,209,300
Net realized capital gains (losses)	(47,900)	35,000
Net unrealized capital gains (losses)	<u>1,258,200</u>	<u>175,100</u>
	<u>\$2,829,600</u>	<u>\$1,419,400</u>

Continued

[6]

NOTES to FINANCIAL STATEMENTS, Continued

9. Pension Plan:

The Institute has a defined benefit pension plan covering substantially all its employees. Pension expense was \$317,966 in 1980 and \$310,720 in 1979. The Institute's policy is to make annual contributions to the plan equal to the amount accrued for pension expense. Accumulated plan benefits and plan net assets are as follows:

	January 1,	
	1980	1979
Actuarial present value* of accumulated plan benefits:		
Vested	\$2,446,644	\$2,290,727
Nonvested	3,450,840	3,093,820
	\$5,897,484	\$5,384,547
Net assets available for benefits	\$2,713,601	\$2,285,532

*At assumed 5-1/2% rate of return.

REPORT on SUPPLEMENTAL STATEMENT

The statements referred to in our opinion on page 1 are set forth on pages 2 through 7. Our examinations were made primarily for the purpose of rendering an opinion on such basic financial statements taken as a whole. The other data shown on the supplemental statements of income, expenses and changes in operating fund balances included in this report on page 9, although not considered necessary for a fair presentation of the information set forth in the basic financial statements, are presented primarily for supplemental information purposes. This additional information has been subjected to the audit procedures applied in the examination of the basic financial statements and is, in our opinion, fairly stated in all material respects in relation to the basic statements taken as a whole.



New York, New York
March 24, 1981.

SUPPLEMENTAL STATEMENT of INCOME, EXPENSES
and CHANGES in OPERATING FUND BALANCES
for the year ended December 31, 1980

	<u>General</u>	<u>Societies and Councils</u>	<u>Total Operating Funds</u>
Income:			
Membership dues	\$ 5,601,000		\$ 5,601,000
Fees and assessments	1,244,800	\$ 1,689,000	2,933,800
Periodical subscriptions, other publication activities and educational products and services	7,469,800	7,411,400	14,881,200
Conventions, conferences and other technical activities	259,600	2,087,500	2,347,100
Net investment income	2,243,400	536,600	2,780,000
Miscellaneous	391,600	242,400	634,000
Total	<u>17,210,200</u>	<u>11,966,900</u>	<u>29,177,100</u>
Expenses:			
Program services:			
Publishing	6,926,100	8,871,700	15,797,800
Educational activities	1,175,100		1,175,100
Convention and other technical activities	705,500	1,232,900	1,938,400
Support of regions, section and branches	1,524,700		1,524,700
Member records and services	1,645,000	1,278,700	2,923,700
Special regional projects	1,446,900		1,446,900
Supporting services:			
General and administrative	2,741,000	189,100	2,930,100
Special renovation and relocation costs	292,200		292,200
Total	<u>16,456,500</u>	<u>11,572,400</u>	<u>28,028,900</u>
Excess of income over expenses	753,700	394,500	1,148,200
Fund balances, beginning of year	4,764,200	5,609,700	10,373,900
Fund balances, end of year	<u>\$ 5,517,900</u>	<u>\$ 6,004,200</u>	<u>\$11,522,100</u>