



THE INSTITUTE OF
ELECTRICAL AND
ELECTRONICS
ENGINEERS, INC.

REPORT OF THE SECRETARY

1967

REPORT OF THE SECRETARY, 1967

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

Gentlemen:

The Report of the Secretary for the year 1967 is presented herewith.

The membership declined about 1.1% during the year. This drop was substantially lower than that projected in light of the increase in membership dues which took effect on January 1, 1967. Student membership increased by 16% and about 10,000 graduating students were transferred to the higher grades.

There was a steady increase in Group memberships, with almost 12,000 new enrollments in 1967. Approximately 50% of the membership now participate in the Group program. Group Affiliates increased by 112.

37,222 editorial pages were published in 1967, compared with 29,414 in 1966. Publication of Group TRANSACTIONS pages increased by nearly 4% in the year. In 1967 publications for members in Regions 8 and 9 were introduced.

The major activity of the Information Services Department, organized in 1967, was negotiation of an agreement between the IEEE and IEE London to jointly publish Electrical and Electronics Abstracts.

New features of this annual Report of the Secretary are brief summaries of standing committee and board activities and changes taking place in the Headquarters staff.

These data indicate a general growth trend with increased services to members and continued improvement in the effectiveness of the Headquarters management.

Respectfully submitted,

Bernard M. Oliver
Secretary, 1967

BOARD OF DIRECTORS, 1967

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Life Member Fund Committee,
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Publications Board, E. K. Gannett
Sections Committee, Emily Sirjane
Standards Committee, J. J. Anderson
Technical Activities Board,
R. M. Emberson
Tellers Committee, Emily Sirjane
Translated Journals Committee,
A. A. McKenzie

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SECTION A

1-1967

Table 1 - IEEE Membership by Region, Grade, Percentage; as of December 31, 1967

	H	F	SM	M	A	Student	Total	Percentage
Region 1	2	925	6,237	23,624	3,706	5,040	39,534	25
Region 2		522	4,958	15,834	1,851	2,716	25,881	16
Region 3		249	2,298	8,207	834	2,301	13,889	9
Region 4		241	2,776	10,276	1,447	3,702	18,442	12
Region 5	1	185	2,088	7,328	847	2,860	13,309	8
Region 6		471	4,733	20,054	2,136	2,981	30,375	19
Region 7		65	856	3,977	1,137	1,533	7,568	5
Region 8		126	807	2,243	500	447	4,123	3
Region 9		12	199	961	187	420	1,779	1
Region 10	1	18	390	1,546	261	228	2,444	1
U.S. Overseas								
Military		3	69	679	82	19	852	1
U.S. Possessions				17	3	1	21	
Total	4	2,817	25,411	94,746	12,991	22,248	158,217	100

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

Grade	December 31, 1967		December 31, 1966		December 31, 1965	
	Number	% of Total	Number	% of Total	Number	% of Total
Honorary (H)	4		5		6	
Fellow (F)	2,817	2	2,759	2	2,681	2
Senior Member (SM)	25,411	16	26,254	16	26,387	17
Member (M)	94,746	60	97,834	61	87,916	57
Associate (A)	12,991	8	14,114	9	12,949	8
Student (S)	22,248	14	19,104	12	24,259	16
Total	158,217	100	160,070	100	154,198	100

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

Region	December 31, 1967		December 31, 1966		December 31, 1965	
	Number	% of Total	Number	% of Total	Number	% of Total
Region 1	39,534	25	39,871	25	38,522	25
Region 2	25,881	16	26,512	17	25,854	17
Region 3	13,889	9	14,436	9	13,999	9
Region 4	18,442	12	18,338	11	17,941	12
Region 5	13,309	8	13,422	8	12,982	8
Region 6	30,375	19	31,411	20	30,235	20
Region 7	7,568	5	7,382	5	6,825	4
Region 8	4,123	3	3,938	2	3,513	2
Region 9	1,779	1	1,416	1	3,579	2
Region 10	2,444	1	2,509	1	-	
U.S. Overseas						
Military	852	1	825	1	736	1
U.S. Possessions	21		10		12	
Total	158,217	100	160,070	100	154,198	100

SECTION A

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

	December 31, 1967	December 31, 1966	December 31, 1965
Fellow	1,112	1,031	1,006
Senior Member	1,973	1,807	1,797
Member	1,018	995	986
Associate	29	22	20
	<u>4,132</u>	<u>3,855</u>	<u>3,809</u>

Table 5 - IEEE Membership Changes, by Grade for the Year Ended December 31, 1967

GAINS	H	F	SM	M	A	Student	Total
Elections			315	2,795	555	13,360	17,025
Reinstatements		23	336	712	210	616	1,897
Transfers to		125	285	8,327	1,856	1,651	12,244
Total	-	<u>148</u>	<u>936</u>	<u>11,834</u>	<u>2,621</u>	<u>15,627</u>	<u>31,166</u>
LOSSES							
Transfers from			118	1,620	410	10,096	12,244
Deceased	1	66	190	219	30	12	518
Resignations		18	769	3,402	785	142	5,116
Dues Arrears		6	702	9,681	2,519	2,233	15,141
Total	<u>1</u>	<u>90</u>	<u>1,779</u>	<u>14,922</u>	<u>3,744</u>	<u>12,483</u>	<u>33,019</u>

Table 6 - IEEE Membership Changes; 3-year Comparison

GAINS	December 31, 1967	December 31, 1966	December 31, 1965
Elections	17,025	17,472	17,068
Reinstatements	1,897	3,057	4,603
Transfers to	12,244	12,752	3,561
Total Gain	<u>31,166</u>	<u>33,281</u>	<u>25,232</u>
LOSSES			
Transfers from	12,244	12,752	3,561
Deceased	518	574	687
Resignations	5,116	1,079	1,322
Dues Arrears	15,141	13,004	19,442
Total Loss	<u>33,019</u>	<u>27,409</u>	<u>25,012</u>
Net Gain/(Loss)	(1,853)	5,872	220

SECTION A

Table 7 - IEEE Membership by Region, by Section and Subsection, by Grade,
December 31, 1967

REGION 1

Section	H	F	SM	M	A	Student	Subtotal	Section Total
Berkshire		29	138	265	18	9		459
Binghamton		2	87	504	75	75		743
Boston	1	143	902	3,911	470	660	6,087	7,205
Lynn		5	76	249	27	33	390	
Merrimack Valley		6	77	488	74	83	728	
Buffalo		10	225	584	88	114		1,021
Connecticut		23	187	835	115	235	1,395	2,891
Fairfield County		24	227	690	125	83	1,149	
New London		5	38	225	28	51	347	
Elmira-Corning		2	34	103	25	11		175
Ithaca		7	17	65	5	68		162
Long Island		79	630	2,572	385	238		3,904
Maine		9	38	144	17	77		285
Mid-Hudson		6	72	592	68	22	760	1,033
Catskill		1	16	207	32	17	273	
Mohawk Valley		7	60	331	46	21	465	622
St. Lawrence Int'l.		1	14	47	18	77	157	
New Hampshire		10	95	449	48	102		704
New Jersey Coast		51	251	1,068	105	81		1,556
New York	1	99	677	2,677	799	1,268	5,521	6,887
Westchester		36	267	797	157	109	1,366	
North Jersey		162	916	3,174	491	577		5,320
Princeton		59	234	827	101	209		1,430
Providence		2	82	307	27	116	534	779
Southeastern Mass.		8	33	104	35	65	245	
Rochester		6	154	763	113	74		1,110
Schenectady		76	308	445	56	236	1,121	1,272
Adirondack		10	46	66	10	19	151	
Springfield		5	40	119	27	130		321
Syracuse		32	210	689	68	53		1,052
Vermont		6	32	129	21	54		242
Worcester County		4	54	198	32	73		361
	<u>2</u>	<u>925</u>	<u>6,237</u>	<u>23,624</u>	<u>3,706</u>	<u>5,040</u>		<u>39,534</u>

SECTION A

Table 7 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1967

REGION 2

Section	H	F	SM	M	A	Student	Subtotal	Section Total
Akron		8	93	250	27	65		443
Allegheny Mountain		1	48	63	8	7		127
Baltimore		41	378	1,143	135	69	1,766	2,383
Annapolis		4	107	386	37	15	549	
Eastern Shore		2	9	40	4	13	68	
Canton			46	87	16	22		171
Central Pennsylvania		6	54	187	18	157		422
Cincinnati		11	124	486	46	62		729
Cleveland		46	404	967	104	218		1,739
Columbus		12	150	557	77	294	1,090	1,143
Chillicothe			8	6	1		15	
Zanesville		1	10	23	1	3	38	
Dayton		17	197	765	104	133		1,216
Delaware Bay		3	57	223	13	61		357
Erie		5	88	150	23	22		288
Johnstown			26	97	14	14		151
Lehigh Valley		23	171	508	73	162		937
Lima		3	59	79	4	33		178
North Central Ohio		2	39	78	9	6		134
Ohio Valley			10	43	10	4		67
Philadelphia		115	928	3,583	436	597		5,659
Pittsburgh		87	541	1,205	81	189	2,103	2,213
Upper Monongahela		1	13	55	3	38	110	
Sharon		10	82	143	13	74		322
Southern New Jersey		3	14	111	21	17		166
Susquehanna		6	76	243	37	34		396
Washington		115	1,197	4,245	510	353		6,420
West Virginia			29	111	26	54		220
		522	4,958	15,834	1,851	2,716		25,881

SECTION A

Table 7 - IEEE Membership by Region, by Section and Subsection, by Grade,
December 31, 1967

REGION 3

Section	H	F	SM	M	A	Student	Subtotal	Section Total
Alabama		6	119	370	16	147		658
Atlanta		16	190	502	65	148	921	999
Macon-Warner Robins			7	23	3	1	34	
Rome			16	25	2	1	44	
Baton Rouge		2	25	88		59	174	266
Lafayette			4	39	2	47	92	
Canaveral		7	96	762	76	148		1,089
Central North Carolina			29	134	13	8		184
Central Virginia		13	68	262	13	84		440
Charlotte		10	82	162	36	18		308
Chattanooga		11	69	139	13	2		234
Daytona		7	35	114	12			168
Eastern North Carolina		14	70	333	31	146		594
East Tennessee		5	77	152	4	93	331	396
Upper East Tennessee		1	14	36	8	6	65	
Evansville-Owensboro		2	41	94	12	42	191	228
Paducah			2	26	4	5	37	
Florida West Coast		43	174	491	56	28		792
Fort Walton			12	94	7	2		115
Gainesville		5	24	107	12	77		225
Hampton Roads		5	37	300	30	30		402
Huntsville		3	84	643	51	18	799	834
Muscle Shoals			6	24	1	4	35	
Jacksonville			38	98	20	2		158
Lexington		1	18	123	4	60		206
Louisville		1	39	169	10	70		289
Memphis		2	63	130	18	172	385	431
Jackson			11	25	2	8	46	
Miami		29	137	335	60	58		619
Middle Tennessee			21	65		12		98
Mississippi			21	122	3	15	161	356
Northeast Mississippi		2	6	66	2	119	195	
Mobile			17	97	4	7		125
Nashville		5	50	124	14	209		402
New Orleans		7	115	358	45	80		605
Oak Ridge		1	37	78	5	8		129
Orlando		9	94	341	45	3		492
Palm Beach		15	39	118	23	6		201
Panama City			11	59	5	1		76
Pensacola		1	10	47	3	2		63
Richmond		4	47	173	16	10		250
Savannah			12	42	5	1		60
South Carolina								674
Central Savannah River			11	24	3	3	41	
Charleston		1	20	96	14	45	176	
Columbia		3	40	92	7	56	198	
Piedmont		2	20	114	11	112	259	
Virginia Mountain		7	77	173	23	122		402
Western North Carolina		8	23	44	6			81
Winston-Salem		1	40	174	19	6		240
		249	2,298	8,207	834	2,301		13,889

SECTION A

Table 7 - IEEE Membership by Region, by Section and Subsection, by Grade,
December 31, 1967

REGION 4

Section	H	F	SM	M	A	Student	Subtotal	Section Total
Arrowhead		1	17	71	8	7		104
Cedar Rapids		7	77	357	41	46		528
Central Illinois		12	94	319	32	191		648
Central Indiana		13	146	610	55	287	1,111	1,184
Bloomington		2	13	45	8	5	73	
Central Iowa		8	55	138	11	101		313
Chicago		57	687	2,122	501	689	4,056	5,308
Calumet		5	60	174	33	36	308	
Fox Valley		9	182	619	83	51	944	
Fort Wayne		10	96	304	24	110		544
Illinois Valley			34	85	9	76		204
Iowa-Illinois		2	47	116	12	8	185	221
Burlington			6	24	5	1	36	
Madison		8	34	134	10	192		378
Milwaukee		28	228	832	55	257	1,400	1,504
Racine-Kenosha		1	10	62	6	25	104	
Nebraska		6	96	257	81	244		684
Northeast Michigan		3	43	137	19	35		237
Northeastern Wisconsin		2	33	126	13	78		252
Rock River Valley		1	33	144	22	7		207
Siouxland			18	60	18	14		110
South Bend			47	190	40	213		490
Southeastern Michigan		48	397	1,519	220	566		2,750
Southern Minnesota			14	144	11	6		175
Toledo		2	83	182	18	72		357
Twin Cities		13	165	1,251	84	234	1,747	1,959
Red River Valley		1	13	77	3	118	212	
West Michigan		2	48	177	25	33		285
		241	2,776	10,276	1,447	3,702		18,442

SECTION A

Table 7 - IEEE Membership by Region, by Section and Subsection, by Grade,
December 31, 1967

REGION 5

Section	H	F	SM	M	A	Student	Subtotal	Section Total
Arkansas		5	43	125	15	10		198
Beaumont		4	30	110	15	117	276	318
Lake Charles			6	29	3	4	42	
Central Texas		17	92	311	27	220		667
Corpus Christi		4	31	63	10	72	180	215
Victoria-Port Lavaca			8	21	5	1	35	
Dallas	1	26	251	1,604	123	79		2,084
Denver		31	286	905	62	333	1,617	1,899
Black Hills			3	38	2	74	117	
Pikes Peak		1	31	101	9	23	165	
El Paso		1	47	251	30	124		453
Fort Worth		4	75	300	39	59		477
Houston		11	235	1,038	135	379	1,798	1,840
Freeport			7	32	1	2	42	
Kansas City		11	191	398	110	144		854
Oklahoma City		10	113	230	21	97		471
Ozark			24	55	4	195		278
Panhandle		1	27	45	15	1		89
Permian Basin			2	29	6	1		38
St. Louis		42	312	1,075	108	582		2,119
Shreveport		2	72	107	30	67	278	315
Monroe			5	18	2	12	37	
South Plains			17	54	3	41		115
Tulsa		9	111	231	54	142		547
West Central Texas		1	15	31	3	4		54
Wichita		5	54	127	15	77		278
	<u>1</u>	<u>185</u>	<u>2,088</u>	<u>7,328</u>	<u>847</u>	<u>2,860</u>		<u>13,309</u>

SECTION A

Table 7 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1967

REGION 6

Section	H	F	SM	M	A	Student	Subtotal	Section Total
Alamogordo-Holloman			11	67	10			88
Alaska			12	90	19	33		154
Albuquerque		9	107	381	60	80	637	761
Los Alamos-Santa Fe			34	84	6		124	
Antelope Valley			9	54	4	1		68
Boise			33	23	2	3		61
Buenaventura		4	35	282	30	3		354
China Lake			9	97	12	5		123
Foothill		9	172	696	94	58		1,029
Fort Huachuca		1	15	58	9	1		84
Hawaii		2	38	290	42	47		419
Idaho		1	9	80	4	2		96
Las Vegas			11	115	20	5		151
Met. Los Angeles		14	191	783	127	193		1,308
Montana				3	1	1	5	332
Billings		1	5	33	1	2	42	
Butte			12	24	2	5	43	
Helena		1	10	66	3	162	242	
Orange County		23	361	2,167	224	88		2,863
Phoenix		23	216	789	67	150		1,245
Portland		31	209	503	52	35	830	1,146
Eugene		2	22	88	20	184	316	
Richland		3	37	87	11	3	141	176
Walla Walla			4	23	2	6	35	
Sacramento		5	70	315	42	74	506	703
Reno		1	15	41	4	46	107	
San Joaquin			8	27	9	10	54	
Shasta		1	8	22	5		36	
San Diego		15	199	792	80	68		1,154
San Fernando Valley		17	385	1,371	187	49		2,009
San Francisco		51	384	1,173	202	202	2,012	7,770
East Bay		29	206	859	71	196	1,361	
Santa Clara Valley		91	569	3,157	233	347	4,397	
San Gabriel Valley		23	213	675	78	61		1,050
Santa Barbara		16	61	233	16	148		474
Santa Monica Bay		41	330	1,119	109	102		1,701
Seattle		22	278	1,235	95	181	1,811	1,901
Tacoma		2	18	59	3	8	90	
South Bay Harbor		15	244	1,319	125	70		1,773
Spokane		8	45	110	11	79		253
Tucson		5	56	160	14	62		297
Utah		5	54	298	11	203		571
Vandenberg			17	173	18	8		216
Wenatchee			11	33	1			45
		471	4,733	20,054	2,136	2,981		30,375

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Table 7 - IEEE Membership by Region, by Section and Subsection, by Grade,
December 31, 1967

Section	H	F	SM	M	A	Student	Subtotal	Section Total
<u>REGION 7</u>								
Bay of Quinte		2	37	128	20	72		259
Canadian Atlantic		1	16	144	21	53		235
Hamilton		1	43	146	60	87		337
Kitchener-Waterloo		1	16	71	32	35	155	196
Guelph			10	22	4	5	41	
London			15	95	33	35		178
Montreal		10	211	831	121	117		1,290
Niagara International		2	34	104	28	20		188
Northern Alberta			7	123	66	150		346
Ottawa		14	94	557	128	95		888
Quebec		2	18	110	14	25		169
Regina			5	79	19	51		154
St. Maurice		1	4	30	7	5		47
Southern Alberta			7	76	46	149		278
Toronto		20	189	870	323	271		1,673
Vancouver		7	116	370	135	223		851
Victoria		3	15	59	16	6		99
Winnipeg		1	19	162	64	134		380
		<u>65</u>	<u>856</u>	<u>3,977</u>	<u>1,137</u>	<u>1,533</u>		<u>7,568</u>
<u>REGION 8</u>								
Benelux		14	62	219	46	30		371
Egypt		3	13	37	3	11		67
France		16	101	190	56	18		381
Germany (West)		12	64	104	26	3		209
Israel		3	19	110	26	8		166
Middle & South Italy			18	106	35	63		222
North Italy		1	26	130	68	73		298
Norway		1	18	47	7	1		74
Sweden		6	42	128	48	78		302
Switzerland		11	61	181	23	8		284
U. Kingdom & Republic of Ireland		53	299	657	82	21		1,112
		<u>120</u>	<u>723</u>	<u>1,909</u>	<u>420</u>	<u>314</u>		<u>3,486</u>
<u>REGION 9</u>								
Buenos Aires		3	28	139	24	121		315
Chile			7	42	4	21		74
Colombia			6	76	10	51		143
Mexico		5	55	190	25	56		331
Peru			8	53	3	22		86
Puerto Rico & Virgin Islands			21	149	15	64		249
Rio de Janeiro		2	18	41	9	5		75
Sao Paulo			6	43	15	3		67
Venezuelan		1	18	107	40	73		239
		<u>11</u>	<u>167</u>	<u>840</u>	<u>145</u>	<u>416</u>		<u>1,579</u>
<u>REGION 10</u>								
Kanpur(India)			1	6		3		10
Tokyo	1	14	127	466	100	162		870
	<u>1</u>	<u>14</u>	<u>128</u>	<u>472</u>	<u>100</u>	<u>165</u>		<u>880</u>

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Table 8 - Membership in Region 8, by Country, by Grade, December 31, 1967;
3-Year Comparison

Country	H	F	SM	M	A	Student	12/31/67 Total	12/31/66 Total	12/31/65 Total
Algeria				1			1	2	2
Austria			3	9		1	13	11	11
Bulgaria			1				1	1	-
Cyprus			2	13	2		17	19	16
Czechoslovakia			2	6	6		14	15	15
Denmark		1	13	63	19	5	101	95	95
Finland			2	8	4	31	45	15	13
East Germany (& Berlin)			3	4	2	1	10	10	11
Gibraltar							-	1	-
Greece		1	8	31	5		45	52	45
Greenland							-	-	1
Hungary			4				4	4	6
Iceland				4	2		6	7	7
Iraq			1	6	3		10	9	10
Jordan			1	5			6	4	3
Lebanon			2	24	4		30	34	30
Libya			3	18	2		23	21	20
Malta				4	1		5	6	5
Morocco				1			1	4	1
Poland		1	3	1	2		7	5	8
Portugal			2	10	1		13	12	10
Rumania				1			1	2	2
Spain		1	13	91	11	88	204	169	103
Syria				3			3	7	8
Turkey			3	26	5	6	40	32	36
U.S.S.R.		2	16		7	1	26	22	21
Yugoslavia			2	5	4		11	9	11
Total		6	84	334	80	133	637	568	490
Territory Assigned to IEEE Sections		120	723	1909	420	314	3486	3370	3023
Total		126	807	2243	500	447	4123	3938	3513

SECTION A

Table 9 - Membership in Region 9, by Country, by Grade, December 31, 1967;
3-Year Comparison

Country	H	F	SM	M	A	Student	12/31/67 Total	12/31/66 Total	12/31/65 Total
Bermuda							-	-	1
Bolivia				9			9	9	12
Brazil			3	23	4		30	25	83
Chile				1			1	-	-
Costa Rica			3	7	3		13	13	11
Cuba			2	3			5	4	5
El Salvador		1	1	8			10	12	11
Ecuador			2	7	2	1	12	13	12
Falkland Island (Port Stanley)					1		1	-	-
Guatemala			1	11		1	13	13	10
Guyana			3	2	4		9	6	5
Haiti							-	-	1
Honduras				1			1	4	1
Netherlands Antilles			1	4			5	5	6
Nicaragua				5	1	1	7	5	3
Peru							-	60	51
Republic of Panama			2	8	3		13	10	11
Surinam			1	2			3	-	-
Uruguay				1	2		3	3	4
Venezuela								138	117
West Indies			13	29	22	1	65	61	46
Total		1	32	121	42	4	200	381	390
Territory Assigned to IEEE Sections		11	167	840	145	416	1579	1035	876
Total		12	199	961	187	420	1779	1416	1266

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 3-1967
 Table 10- IEEE Membership in Region 10, by Country, by Grade, December 31, 1967;
 3-Year Comparison

Country	H	F	SM	M	A	Student	12/31/67 Total	12/31/66 Total	12/31/65 Total
Aden							-	2	2
Afghanistan				2			2	3	3
Australia		1	42	187	21	37	288	265	246
Bahrein				3	1		4	3	5
Basutoland					1		1	-	-
Burma				5			5	4	2
Cambodia				2			2	-	-
Cameroon							-	4	5
Ceylon			4	4	3		11	9	8
China (mainland)			2	19	2		23	11	10
Congo				2			2	2	1
Dahomey			2				2	2	-
Ethiopia				3	1		4	7	7
Fiji Islands				1			1	1	1
Formosa (Taiwan)							-	6	1
Ghana			2	5	2		9	11	11
Guinea							-	1	-
Hong Kong			7	92	16		115	91	76
India (except Kanpur Section)		2	110	382	52	19	565	775	744
Indonesia				4			4	3	6
Iran			5	27	1		33	24	24
Kenya			2	15	3		20	17	15
Kuwait			2	11	3		16	24	25
Liberia			2	2			4	4	2
Macao				1			1	1	1
Madagascar				2			2	1	1
Malawi				2			2	3	5
Malaysia			4	50	4		58	58	55
Mauritius				2			2	4	4
Muscat					1		1	-	-
Nepal				4			4	4	2
New Guinea							-	1	1
New Zealand			7	36	8	4	55	54	41
Nigeria			4	27	6	3	40	49	31
Pakistan		1	15	45	7		68	78	85
Philippines			10	13	6		29	28	33
Qatar							-	1	-
Rhodesia.			2	8	1		11	11	-
Sabah				1			1	-	-
Sambia			2	3			5	4	2
Saudi Arabia			9	18	2		29	29	-
Sierra Leone			1				1	1	2
Soloman Islands					2		2	1	-
South Africa			15	43	10		68	61	60
South Korea			4	20	1		25	18	15
South West Africa				1	1		1	3	1
Sudan			1	3	1		5	3	2
Surinam							-	-	4
Tanganyika			1	3	1		5	-	-
Tanzania							-	4	2
Thailand			7	21	2		30	26	25
Trucial Oman				2			2	-	-
Uganda				1	2		3	3	1
Viet-Nam				3			3	4	7
Total		4	262	1074	161	63	1564	1719	1574
Territory Assigned to IEEE Sections	1	14	128	472	100	165	880	790	704
Total	1	18	390	1546	261	228	2444	2509	2278

SECTION B

Table 1 - IEEE Student Branches and Student Branch Membership, 1967

Thirteen Student Branches were established during 1967. The total number of Student Branches is now 300 operating as follows:

- 240 - IEEE Student Branches
- 59 - IEEE Student Associate Branches*
- 1 - IEEE Student/Student Associate Branch

School	Section Location	1967	
		Region	Membership***
*Academy of Aeronautics	New York	1	43
Air Force Institute of Technology	Dayton	2	18
Akron, University of	Akron	2	76
Alabama, University of	Alabama	3	71
Alaska, University of	Anchorage	6	32
Alberta, University of	Northern Alberta	7	98
*Algonquin College of Applied Arts and Technology	Ottawa	7	38
Arizona State University	Phoenix	6	150
Arizona, University of	Tucson	6	69
Arkansas, University of	Arkansas	5	204
Auburn University	Alabama	3	81
Bradley University	Illinois Valley	4	85
Bridgeport, University of	Connecticut	1	78
Brigham Young University	Utah	6	80
*British Columbia Institute of Technology	Vancouver	7	71
*British Columbia Vocational School	Vancouver	7	13
British Columbia, University of	Vancouver	7	144
*Bronx Community College	New York	1	45
*Bronx Community College (Evening Division)	New York	1	13
Brooklyn, Polytechnic Institute of (Day Division)	New York	1)	
Brooklyn, Polytechnic Institute of (Evening Division)	New York	1)	287
*Broome Technical Community College	Binghamton	1	69
Brown University	Providence	1	51
Bucknell University	Central Pennsylvania	2	28
**Buenos Aires, Instituto Tecnological de	Buenos Aires	9	10
Buenos Aires, University of	Buenos Aires	9	44
Calgary, University of	Southern Alberta	7	17
California State Polytechnic College (San Luis Obispo)	Santa Barbara	6	140
California State Polytechnic College (Kellogg-Voorhis Campus)	Foothill	6	90
California State College at Long Beach	South Bay Harbor	6	64
California State College at Los Angeles	Metropolitan Los Angeles	6	31
California, University of (Berkeley)	San Francisco	6	184
California, University of (Davis)	Sacramento	6	42
California, University of (Los Angeles)	Santa Monica Bay	6	98
California, University of (Santa Barbara)	Santa Barbara	6	33
California Western University	Santa Monica Bay	6	13
*Capitol Institute of Technology	Washington	2	39
*Carabobo, University of	Venezuela	9	31
Carleton University	Ottawa	7	16
Carnegie Mellon University	Pittsburgh	2	70
Case Western Reserve University	Cleveland	2	106
Catholic University of America	Washington	2	28
Catholic University of Louvain	Benelux	8	26
*Central Technical Institute	Kansas City	5	19
Chalmers University of Technology	Sweden	8	48
Christian Brothers College	Memphis	3	145
Cincinnati, University of	Cincinnati	2	83
Citadel, The	South Carolina	3	41
Clarkson College of Technology	Mohawk Valley	1	77

SECTION B - Table 1 Continued

School	Section Location	Region	Membership***
Clemson University	South Carolina	3	110
Cleveland State University, The	Cleveland	2	63
Colorado State University	Denver	5	67
Colorado, University of	Denver	5	169
Columbia University	New York	1	89
*Community College and Technical Institute of Temple University	Philadelphia	2	70
Concepcion, Universidad de	Chile	9	13
Connecticut, University of	Connecticut	1	56
Cooper Union	New York	1	60
Cornell University	Ithaca	1	66
Dayton, University of	Dayton	2	54
*Dayton, University of, Technical Institute	Dayton	2	37
Delaware, University of	Delaware	2	54
Denver, University of	Denver	5	42
Detroit Institute of Technology	Southeastern Michigan	4	14
Detroit, University of	Southeastern Michigan	4	33
*DeVry Institute of Technology (Illinois)	Chicago	4	455
*DeVry Institute of Technology (Canada)	Toronto	7	72
Drexel Institute of Technology	Philadelphia	2	123
**Drexel Institute of Technology, Evening College	Philadelphia	2	61
Duke University	North Carolina	3	50
Ecole Polytechnique	Montreal	7	79
* ** Electronics Institute of Technology	Southeastern Michigan	4	65
Escuela Tecnica Superior de Ingenieros de Telecomunicacion (Spain)	-	8	43
* ** Escuela de Tecnicos Ministerio de Comunicaciones	Venezuela	9	10
Evansville, University of	Evansville-Owensboro	3	43
Fairleigh Dickinson University (Day Division)	North Jersey	1	64
Fairleigh Dickinson University (Evening Division)	North Jersey	1	14
Florida Institute of Technology	Canaveral	3	157
Florida, University of	Gainesville	3	93
*Franklin Institute of Boston	Boston	1	88
*Franklin University	Columbus	2	-
Fresno State College	San Francisco	6	34
Gannon College	Erie	2	12
Gaston College	North Carolina	3	9
George Washington University	Washington	2	50
Georgia Institute of Technology	Atlanta	3	136
Gonzaga University	Spokane	6	13
Grove City College	Sharon	2	43
Hartford, University of	Connecticut	1	38
Hawaii, University of	Hawaii	6	44
*Heald Engineering College	San Francisco	6	96
Hofstra University	Long Island	1	49
Houston, University of (College of Engineering)	Houston	5	88
*Houston, University of (College of Technology)	Houston	5	52
Howard University	Washington	2	32
*Hudson Valley Community College	Schenectady	1	65
Idaho, University of	Spokane	6	27
Illinois Institute of Technology	Chicago	4	123
Illinois, University of (Urbana)	Central Illinois	4	209
Illinois, University of (Chicago Circle)	Chicago	4	34
Indiana Institute of Technology	Fort Wayne	4	69
** Instituto Superior de Electronica	Buenos Aires	9	10
Iowa, University of	Cedar Rapids	4	47
Iowa State University of Science and Technology	Central Iowa	4	95
John Carroll University	Cleveland	2	34
Johns Hopkins University, The	Baltimore	2	41
Kansas State University of Agriculture and Applied Science	Kansas City	5	70

SECTION B - Table 1 Continued

School	Section Location	Region	Membership***
Kansas, University of	Kansas City	5	14
Kentucky, University of	Lexington	3	72
Lafayette College	Lehigh Valley	2	50
Lamar State College of Technology	Beaumont	5	121
LaSalle College	Philadelphia	2	25
Laval University	Quebec	7	25
Lawrence Institute of Technology	Southeastern Michigan	4	62
Lehigh University	Lehigh Valley	2	74
*Los Angeles Pierce College	San Fernando Valley	6	7
*Los Angeles Trade-Technical College	Santa Monica Bay	6	44
Louisiana Polytechnic Institute	Shreveport	5	85
Louisiana State University	Baton Rouge	3	63
Louisville, University of	Louisville	3	66
Lowell Technological Institute	Boston	1	94
Loyola University	Santa Monica	6	16
McMaster University	Hamilton	7	31
Maine, University of	Maine	1	68
Manhattan College	New York	1	104
*Manitoba Institute of Technology	Winnipeg	7	51
Manitoba, University of	Winnipeg	7	79
** Marist College	Mid Hudson	1	12
Marquette University	Milwaukee	4	144
Maryland, University of	Washington	2	194
Massachusetts Institute of Technology	Boston	1	298
Massachusetts, University of	Springfield	1	103
Merrimack College	Boston	1	29
Miami, University of	Miami	3	58
Michigan State University	Southeastern Michigan	4	114
Michigan Technological University	Northeast Wisconsin	4	73
Michigan, University of	Southeastern Michigan	4	161
Milwaukee School of Engineering	Milwaukee	4	123
Minnesota, University of	Twin Cities	4	138
Mississippi State University	Mississippi	3	133
Mississippi, The University of	Memphis	3	36
Missouri, The University of (Rolla)	St. Louis	5	339
Missouri, University of	St. Louis	5	133
*Mohawk College of Applied Arts and Technology	Hamilton	7	74
*Mohawk Valley Community College	Mohawk Valley	1	14
Monmouth College	New Jersey Coast	1	36
Montana State College	Montana	6	170
Nebraska, University of	Nebraska	4	128
Nevada, University of	Sacramento	6	54
Newark College of Engineering (Day Division)	North Jersey	1	186
Newark College of Engineering (Evening Division)	North Jersey	1	61
New Hampshire, University of	New Hampshire	1	87
** New Haven College	Connecticut	1	35
*New Mexico Highlands University	Albuquerque	6	10
New Mexico State University	El Paso	5	70
New Mexico, University of	Albuquerque	6	71
*New York City Community College	New York	1	46
New York, The City College of the City University of	New York	1	96
*New York Institute of Technology	New York	1	148
*New York, State University of (Alfred)	Buffalo	1	52
New York, State University of (Buffalo)	Buffalo	1	56
*New York, State University of, Agriculture and Technical Institute (Canton)	Mohawk Valley	1	24
New York University (Day Division)	New York	1)	
New York University (Evening Division)	New York	1)	172
North Carolina State University	North Carolina	3	115
North Dakota State University of Agriculture and Applied Science	Twin Cities	4	73
North Dakota, University of	Twin Cities	4	57

SECTION B - Table 1 Continued

School	Section Location	Region	Membership***
Northeastern University	Boston	1	285
*Northern Alberta Institute of Technology	Northern Alberta	7	61
Northrop Institute of Technology	Metropolitan Los Angeles	6	63
Northwestern University	Chicago	4	60
Norwich University	Vermont	1	28
Notre Dame, University of	South Bend	4	79
** Nova Scotia Technical College	Canadian Atlantic	7	41
*Oakland University	Western Michigan	4	13
Ohio Northern University	Lima	2	27
Ohio State University	Columbus	2	186
*Ohio Technical College	Columbus	2	75
Ohio University	Columbus	2	73
*Oklahoma City University	Oklahoma City	5	-
Oklahoma State University	Tulsa	5	137
Oklahoma, University of	Oklahoma City	5	84
Old Dominion College	Hampton Roads	3	16
*Omaha, Municipal University of	Nebraska	4	11
Oregon State University	Portland	6	146
*Oregon Technical Institute	Portland	6	58
Ottawa, University of	Ottawa	7	43
Pacific States University	Metropolitan Los Angeles	6	25
Pacific, University of	Sacramento	6	7
Padova, University of	Italy	8	78
P. M. C. Colleges	Philadelphia	2	12
Pennsylvania State University	Central Pennsylvania	2	182
Pennsylvania, University of	Philadelphia	2	149
Pittsburgh, University of	Pittsburgh	2	103
*Port Arthur College	Beaumont	5	3
Portland State College	Portland	6	12
Prairie View A & M College	Houston	5	34
Pratt Institute	New York	1	31
Princeton University	Princeton	1	68
Puerto Rico, University of	Puerto Rico & Virgin Islands	9	60
Purdue University	Central Indiana	4	255
Queen's University	Bay of Quinte	7	51
*Queensborough Community College	New York	1	50
*RCA Institutes, Inc.	New York	1	358
*Radio College of Canada	Toronto	7	37
*Radio Engineering Institute	Nebraska	4	114
Rensselaer Polytechnic Institute	Schenectady	1	118
Rhode Island, University of	Providence	1	40
Rice University	Houston	5	59
Rochester Institute of Technology	Rochester	1	63
Rochester, The University of	Rochester	1	28
Rome, University of	Italy	8	43
Rose Polytechnic Institute	Central Indiana	4	50
**Royal Institute of Technology	Sweden	8	17
Royal Military College of Canada	Bay of Quinte	7	22
Rutgers State University	Princeton	1	68
*Ryerson Polytechnic Institute	Toronto	7	31
Sacramento State College	Sacramento	6	30
St. Joseph's College	Philadelphia	2	7
St. Louis University	St. Louis	5	50
San Diego State College	San Diego	6	28
San Francisco State College	San Francisco	6	30
San Jose State College	San Francisco	6	107
Santa Clara, University of	San Francisco	6	66
Saskatchewan, University of	Regina	7	48
Seattle University	Seattle	6	36
*Sinclair College	Dayton	2	11
South Carolina, University of	South Carolina	3	61
South Dakota School of Mines & Technology	Denver	5	78

SECTION B - Table 1 Continued

School	Section Location	Region	Membership***
South Dakota State University	Twin Cities	4	62
**South Florida, University of	Florida West Coast	3	13
Southeastern Massachusetts Technological Institute	Providence	1	58
*Southern Alberta Institute of Technology, The	Southern Alberta	7	126
Southern California, University of	Metropolitan Los Angeles	6	86
Southern Methodist University	Dallas	5	43
*Southern Technical Institute	Atlanta	3	20
**Southern University	Baton Rouge	3	18
*Southwest Missouri State College	Kansas	5	26
Southwestern Louisiana, University of	Baton Rouge	3	50
*Spartan School of Electronics	Tulsa	5	16
*Spring Garden Institute	Philadelphia	2	40
Stanford University	San Francisco	6	150
Stevens Institute of Technology	North Jersey	1	69
* **Stout State University	Twin Cities	4	29
Swarthmore College	Philadelphia	2	9
Syracuse University	Syracuse	1	55
Tennessee Agricultural & Industrial State University	Nashville	3	36
Tennessee Technological University	Nashville	3	92
Tennessee, University of	East Tennessee	3	121
Texas A & I University	Corpus Christi	5	50
Texas A & M University	Houston	5	144
Texas Technological College	South Plains	5	43
Texas, University of, at Arlington	Fort Worth	5	80
Texas, University of, at Austin	Central Texas	5	231
Texas, University of, at El Paso	El Paso	5	64
Toledo, University of	Toledo	4	65
Toronto, University of	Toronto	7	85
Tri-State College	Fort Wayne	4	40
Tufts University	Boston	1	54
Tulane University	New Orleans	3	45
Tuskegee Institute	Alabama	3	19
Union College	Schenectady	1	89
*Union County Technical Institute	North Jersey	1	27
*Union Technical Institute	North Jersey	1	35
United States Air Force Academy	Denver	5	14
United States Naval Postgraduate School	San Francisco	6	62
Universidad Central de Venezuela	Venezuela	9	41
Universidad Distrital Francisco Jose de Caldas	Colombia	9	34
**Universidad Nacional de Ingenieria	Peru	9	22
**Uppsala, University of	Sweden	8	12
Utah State University	Utah	6	35
Utah, University of	Salt Lake City	6	90
*Valparaiso Technical Institute	South Bend	4	135
Valparaiso University	South Bend	4	59
Vanderbilt University	Nashville	3	99
Vermont, University of	Vermont	1	26
Villanova University	Philadelphia	2	100
Virginia Military Institute	Virginia Mountain	3	34
Virginia Polytechnic Institute	Virginia Mountain	3	102
Virginia, University of	Central Virginia	3	87
*Virginia Western Community College	Hampton Roads	3	12
*Voorhees Technical Institute	New York	1	44
*Ward Technical Institute	Connecticut	1	46
Washington State University	Spokane	6	44
Washington University	St. Louis	5	73
Washington, University of	Seattle	6	156
Waterloo, University of	Kitchener-Waterloo	7	58
Wayne State University	Southeastern Michigan	4	67
*Wentworth Institute	Boston	1	23
Western Michigan University	West Michigan	4	28

SECTION B - Table 1 Continued

School	Section Location	Region	Membership***
**Western New England College	Boston	1	25
*Western Ontario Institute of Technology, The	Southeastern Michigan	4	36
West Virginia Institute of Technology	West Virginia	2	46
West Virginia University	Pittsburgh	2	49
Wichita State University	Wichita	5	68
Windsor, University of	Southeastern Michigan	4	24
*** Wisconsin State University	Madison	4	19
Wisconsin, University of	Madison	4	214
Worcester Polytechnic Institute	Worcester	1	66
Wyoming, University of	Denver	5	59
Yale University	Connecticut	1	27
Youngstown University	Sharon	2	45

*IEEE Student Associate Branches

**Established in 1967

***Membership as of December 31, 1967

SECTION C

Table 1 - IEEE Group Membership, December 31, 1967; 4-year Comparison

Group No.	Group Name	1967			1967 Total	1966 Total	1965 Total	1964 Total
		Student Discount	Students Regular	Other Members				
1	Audio and Electroacoustics	317	199	3,972	4,488	4,302	4,230	4,054
2	Broadcasting	128	103	1,687	1,918	1,755	1,592	1,492
3	Antennas and Propagation	508	47	4,327	4,882	4,605	4,256	3,864
4	Circuit Theory	1,296	233	6,434	7,963	7,020	6,636	6,085
5	Nuclear Science	179	142	2,043	2,364	2,181	1,939	1,761
6	Vehicular Technology	42	43	2,003	2,088	1,911	1,705	1,579
7	Reliability	17	17	2,588	2,622	2,602	2,431	2,264
8	Broadcast and Television Receivers	164	66	2,008	2,238	2,043	1,835	1,770
9	Instrumentation and Measurements	104	144	4,600	4,848	4,650	4,488	4,143
10	Aerospace and Electronic Systems	724	128	8,910	9,762	10,021	10,397	13,415
12	Information Theory	244	173	4,048	4,465	4,306	4,031	3,896
13	Industrial Electronics and Control Instrumentation	81	110	3,283	3,474	3,370	3,059	2,655
14	Engineering Management	356	72	5,739	6,167	5,791	5,453	5,449
15	Electron Devices	1,916	96	6,148	8,160	6,674	5,558	4,852
16	Computer	1,999	255	10,986	13,240	11,136	9,999	9,254
17	Microwave Theory and Techniques	344	231	5,554	6,129	5,830	5,527	5,290
18	Engineering in Medicine and Biology	537	200	3,530	4,267	3,796	3,517	3,163
19	Communication Technology	782	216	7,379	8,377	7,253	6,448	5,392
20	Sonics and Ultrasonics	23	22	1,175	1,220	1,176	1,139	1,064
21	Parts, Materials and Packaging	15	16	2,370	2,401	2,526	2,738	3,362
23	Automatic Control	918	153	5,341	6,412	5,874	5,189	4,608
25	Education	29	52	1,756	1,837	1,630	1,368	1,238
26	Engineering Writing and Speech	52	93	2,012	2,157	2,067	1,920	1,737
27	Electromagnetic Compatibility	10	7	1,662	1,679	1,687	1,638	1,424
28	Man-Machine Systems	16	47	995	1,058	936	788	719
29	Geoscience Electronics	54	76	1,413	1,543	1,458	1,278	1,168
31	Power	782	35	11,344	12,161	10,820	9,391	7,108
32	Electrical Insulation	5	4	1,086	1,095	985	851	645
33	Magnetics	65	26	1,862	1,953	1,757	1,434	193
34	Industry and General Applications	173	24	3,954	4,151	3,578	2,609	913
35	Systems Science and Cybernetics	164	301	3,021	3,486	2,918	1,524	-
		<u>12,044</u>	<u>3,331</u>	<u>123,230</u>	<u>138,605</u>	<u>126,658</u>	<u>114,968</u>	<u>104,557</u>
	Journal of Quantum Electronics (G-15)	112	89	1,433	1,634	1,493	1,238	
	Journal of Quantum Electronics (G-17)	45	16	520	581	636	608	
		<u>157</u>	<u>105</u>	<u>1,953</u>	<u>2,215</u>	<u>2,129</u>	<u>1,846</u>	
	Journal of Solid State Circuits (G-4)	1,296	233	6,434	7,963			
	Journal of Solid State Circuits (G-15)	107	56	759	922			
	Journal of Solid State Circuits	63	38	1,007	1,108			
		<u>1,466</u>	<u>327</u>	<u>8,200</u>	<u>9,993</u>			

12,234 or 55.0% of the Student members are enrolled in Groups.
64,076 or 47.1% of grades other than Student are enrolled in Groups.

SECTION C

TABLE 2 - 1967 IEEE GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

REGION I	Total Affiliates	Total Group Members	A&E G-1	B G-2	AP G-3	CT G-4	NS G-5	VT G-6	R G-7	BTR G-8	IM G-9	AES G-10	IT G-12	IECI G-13	EM G-14	ED G-15	C G-16	MTT G-17	EMB G-18	Com Tech G-19	SU G-20	PMP G-21	AC G-23	E G-25	EWS G-26	EMC G-27	MMS G-28	GeoS G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35	
Berkshire	1	287	5		3	19	3	2	7	3	12	18	2	7	15	19	20	3	1	1	3	15	11	1	6	8	1	3	71	10	8	5	5	
Binghamton	2	577	19	5	10	36	8	3	42	5	13	53	6	11	30	35	109	13	17	10	4	15	31	3	7	17	2	3	27	2	16	8	17	
Boston	47	6,490	176	42	290	380	91	50	114	52	272	487	349	132	296	432	750	410	244	348	59	125	292	62	72	50	70	91	344	31	91	103	185	
Lynn	2	324	7		8	21	5	2	10	1	18	22	6	11	14	31	24	17	14	17	3	7	15	2	5	3	2	3	29	6	5	11	5	
Merrimack Valley	1	593	19	3	26	54	6	5	11	11	20	53	14	7	23	47	38	64	13	61	3	9	21	7	8	6	6	5	26		6	6	15	
Buffalo	7	858	18	16	32	40	9	12	15	21	19	56	46	22	29	16	54	32	26	52	4	10	69	6	31	6	10	6	74	14	10	78	25	
Connecticut	8	1,084	46	9	22	52	30	12	18	10	58	48	30	51	42	60	88	24	51	42	17	14	70	12	9	11	1	11	130	14	21	68	13	
Fairfield County	10	1,009	38	19	22	66	13	12	32	15	39	55	22	28	59	72	96	48	33	62	20	36	28	10	13	16	15	11	48	5	23	33	20	
New London	3	262	17	3	12	17	10	2	3	1	14	10	19	3	18	11	22	2	10	7	7	3	20	4	5	3	4	2	15	5	2	3	8	
Elmira-Corning	1	130	3	2	1	4	3	3	2	4	5	2	1	6	10	21	13	3	4	3	1	5	4	2	3	1	1	1	5	3	3	8	3	
Ithaca	6	215	3	1	8	19	4	1	2	1	3	6	20	4	4	32	27	7	9	8			23	6	2	2	2		6	1	2	4	8	
Long Island	17	3,707	110	38	195	199	64	44	124	56	106	434	142	70	202	155	335	317	119	193	39	90	137	40	57	55	36	30	128	16	38	52	86	
Maine		203	10	7	5	8	4	6	3	3	9	9	3	4	5	11	10	10	8	16	3	3	7	2	1	3	1	3	36	2	3	7	1	
Mid-Hudson	8	533	12	4	1	31	2	4	13	3	13	6	12	9	29	76	167	5	7	11	1	17	11	7	6		2	3	32	2	25	2	20	
Catskill	2	149	4	1	2	6	2	1	1	3	1	3	3	4	8	6	45	2	1	5	2	6	4	1	4	7	1		6	1	14	2	3	
Mohawk Valley	1	329	2	3	23	13	3	1	19	4	6	40	14		29	15	31	23	4	32		4	12	1	6	20	3	3	8	1		3	6	
St. Lawrence International		92	3	1	1	8	1	1	3	1		3	1	1	5	6	7	2	3	4	2	1	4	3	3		1	1	17		2	2	5	
New Hampshire	1	549	16	5	42	48	3	3	3	5	27	41	18	8	24	22	38	54	17	42	7	7	19	7	11	6	2	11	32	5	6	7	13	
New Jersey Coast	6	1,493	34	11	57	88	11	31	23	12	34	83	91	17	55	94	171	89	32	269	10	26	25	15	25	48	22	9	22	8	17	8	56	
New York	41	4,833	199	102	133	363	83	51	72	105	128	272	165	103	169	261	557	203	244	354	41	71	180	67	79	48	46	43	344	33	42	116	159	
Weschester	6	1,355	63	33	31	80	17	19	19	29	53	86	40	36	84	72	179	42	57	91	13	27	35	17	17	12	10	19	77	12	23	34	28	
North Jersey	26	4,485	139	49	117	266	53	58	117	76	195	286	126	145	213	269	422	220	123	346	42	107	183	39	85	34	31	39	342	52	81	128	102	
Princeton	9	1,299	35	17	25	86	25	15	15	39	44	75	45	25	46	182	145	57	45	69	11	24	44	23	26	8	6	10	53	11	42	19	32	
Providence	3	413	13	3	12	28	3	5	8	7	14	26	26	9	18	22	29	12	16	23	13	8	31	5	7	3	5	11	28	6	4	6	12	
Southeastern Mass.		165	5		2	9	1	1	4	2	5	9	3	9	7	9	14	2	4	6	2	9	8	3	7	2	1	7	17	3	2	8	4	
Rochester	7	856	41	10	15	51	16	16	19	16	34	49	41	23	44	42	64	20	43	82	14	18	40	13	21	4	7	7	48	4	13	25	16	
Schenectady	4	940	14	12	17	38	21	7	5	9	36	21	18	33	30	91	57	43	20	29	7	10	59	20	9	9	4	6	166	16	20	85	28	
Adirondack	1	101			2	4	4	2	2	1	2	1	4	5	3	8	4	2	2	4			2	7	1		1	1	21	4	2	9	3	
Springfield		180	9	6	8	11	3	2		8	3	7	2	2	8	9	16	8	7	3			1	15	6	1	1	2		23	5	2	6	6
Syracuse	2	1,097	33	22	63	78	8	11	23	42	23	90	78	13	56	89	100	69	19	35	9	24	38	17	13	7	5	3	50	4	4	36	35	
Vermont	2	145	2	2	3	9		1	6	1	7	6	2	4	4	13	13	2	17	4	4	1	4	4	1				16		14	2	3	
Worcester County	2	255	10	5	3	15	3	3	2	4	11	12	5	6	10	24	26	10	16	11	2	3	8	11	4	4	2	6	23	2	4	6	4	
	226	35,008	1105	431	1191	2147	509	386	737	550	1224	2369	1354	808	1589	2252	3671	1815	1226	2240	343	698	1455	417	544	394	302	348	2264	278	545	890	926	

SECTION C

TABLE 2 - 1967 IEEE GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

REGION 2	Total Affiliates	Total Group Members	A&E G-1	B G-2	AP G-3	CT G-4	NS G-5	VT G-6	R G-7	BTR G-8	IM G-9	AES G-10	IT G-12	IECI G-13	EM G-14	ED G-15	C G-16	MTT G-17	EMB G-18	Com Tech G-19	SU G-20	PMP G-21	AC G-23	E G-25	EWS G-26	EMC G-27	MMS G-28	GeoS G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35
Akron	1	295	4	7	16	13	1	3		1	7	17	3	16	6	8	34	7	3	7		2	17	1	3	1	1	1	67	5		40	4
Alleghany Mountain	1	63	2	1		1	1		2	3	5	2		1	5	3	2	1	1	1	4	11	1	1	1			6		5	3		
Baltimore	5	1,507	35	14	65	85	21	13	38	14	47	172	71	14	80	80	93	113	37	95	8	29	47	11	21	22	8	11	149	8	14	69	23
Annapolis	1	460	10	3	19	25	5	6	21	10	10	60	17	3	28	34	28	21	8	24	5	5	23	2	11	26	3	9	14	3	7	12	8
Eastern Shore		33		1		3	1	1		1	1	2		2	2	2	4			1	1				2			6			2	1	
Canton	1	96	2	1	4	4	1	5		1	3	2	1	4	3	5	3	2	2	4	1		1		1	1		1	32	2	2	8	
Central Pennsylvania	1	376	10	4	22	19	9	4	4	8	10	33	23	3	17	30	36	21	8	19	7	5	20	7	5	7	6	2	15	2	1	5	14
Cincinnati	2	517	36	14	10	25	13	5	8	7	14	27	7	22	16	21	32	9	21	25	2	10	27	7	9	5	1	3	93	3	2	35	8
Cleveland	7	1,211	35	23	15	63	39	33	12	16	62	39	8	83	36	49	86	18	64	36	16	17	78	18	11	6	8	2	159	16	13	114	36
Columbus	4	938	21	6	71	49	17	15	14	7	38	63	31	40	33	68	75	44	26	69	10	11	70	9	8	3	8	5	45		24	25	33
Chillicothe		5	1								1						1												2				
Zanesville		20				3			1		1	1			4		1		1			1							5			2	
Dayton	4	974	29	8	29	30	11	10	39	11	33	97	29	15	108	58	150	17	29	32	6	17	48	13	13	19	12	8	37	7	10	17	32
Delaware Bay	2	233	9	3	10	14	4	1	2	2	6	11	5	7	9	12	16	7	7	4	2	3	12	2	2	3		4	32	14	4	19	7
Erie	2	111	2			3		1	4		1	8	1	5	5	4	7		1	5	3	5	4		2	2		15	5	2	26		
Johnstown		73	1	2	3	2		1		1	4	2	3	3	1	5	5	3	1	1		1	3	2	1			21			7		
Lehigh Valley	8	609	13	6	4	27	7	8	11	7	20	18	6	18	20	77	42	31	12	19	14	10	14	6	11	6	3	4	127	6	30	28	4
Lima		84				3		1	1		1	31		1	6	3	3	2	3	2		1	4	4	2	1		5		2	7	1	
North Central Ohio		95	2	1	1	4	1	2	3	1	3	3	1	3	3	2	5	2	1	12	1	1	2	2	1	1		21	2	2	9	2	
Ohio Valley		19		1		1		1						2	1		1	1							2			5	1		3		
Philadelphia	28	5,042	158	88	130	250	64	62	126	88	180	451	180	107	235	198	579	149	182	327	35	154	191	65	83	77	35	38	365	37	97	170	141
Pittsburgh	10	1,507	35	26	10	58	49	26	11	15	50	21	20	72	61	98	130	13	44	36	14	11	85	24	14	6	5	10	305	35	36	136	51
Upper Monongahela	1	61	1	1	2	1	2	1		1	3	1			2	5	7	1	3	4	1	1	3	3	1		1	9	2	1	3	1	
Sharon		190	3	4	3	13	1	2		2	4	3		13	2	6	10	2	2	2	1	1	12	5	3			1	57	7	5	23	3
Southern New Jersey		105	5	4	4	7		4	3	1	4	13		1	6	5	9	2	4	7	1	2	1	1		1	1	1	10	1			7
Susquehanna	2	252	9	7	7	15	10	6	7	11	10	16	6	8	12	22	11	15	9	4	6	6	2	3	7	4	2	3	20		6	6	2
Washington	64	6,467	179	111	376	259	120	118	137	62	215	798	322	60	397	262	590	284	171	685	55	68	161	53	110	156	68	100	220	20	49	46	215
West Virginia		73	4	3	1	5	1	3		2	3			4	1	3	3	2	1	2	1		3	2		1		2	17	1		8	
	144	21,416	606	339	802	982	378	332	444	272	736	1891	734	507	1099	1060	1963	767	641	1423	194	372	829	241	324	348	163	205	1859	177	312	823	593

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TABLE 2 - 1967 IEEE GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

REGION 4	Total Affiliates	Total Group Members	A&E G-1	B G-2	AP G-3	CT G-4	NS G-5	VT G-6	R G-7	BTR G-8	IM G-9	AES G-10	IT G-12	IECI G-13	EM G-14	ED G-15	C G-16	MTT G-17	EMB G-18	Com Tech G-19	SU G-20	PMP G-21	AC G-23	E G-25	EWS G-26	EMC G-27	MMS G-28	GeoS G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35		
Arrowhead		39	1	4				2						4	2		5		1	1				1								10		6	2
Cedar Rapids	1	340	14	2	17	28	1	4	11	3	8	32	12	4	18	17	41	16	12	18	1	6	19	9	10	3	2			17		5	6	4	
Central Illinois	11	573	16	9	32	35	7	4	9	6	11	15	22	9	18	58	74	30	15	29	5	7	28	16	5	4	6	6	55	2	6	13	21		
Central Indiana	7	883	38	7	17	53	7	8	10	43	21	32	40	10	36	84	66	22	22	52	4	8	68	25	15	4	3	5	104	5	20	29	25		
Bloomington	1	47	4	5		5			1	5	3			1	4	2	3		1	1			2								8	2			
Central Iowa	3	224	11	5	7	15	8	1		3	2	5	7	1	7	9	29	7	9	6			14	9	2			1	1	37		9	11	8	
Chicago	28	3,540	173	37	64	179	65	104	61	184	98	116	70	110	274	157	275	91	119	225	38	78	119	34	53	48	20	16	411	37	59	160	65		
Calumet	1	172	1	1	6	7	7	4	1	1	7	6	2	15	6	12	9	5	1	8			1	10	1	2	1		1	30	2	2	21	2	
Fox Valley	3	722	34	8	5	37	24	24	14	29	12	20	11	17	48	26	122	7	17	80	6	9	14	5	11	4	2	3	100	5	6	14	8		
Fort Wayne	2	342	14	10	9	28	3	6	4	18	8	27	8	9	18	15	23	16	9	28	2	6	6	3	1			2	37	11	9	6	6		
Illinois Valley		121	3	1		5	1		2	2	6	8	4	7	11	8	12	2	3	4	1		4	2	5			3		13	2		11	1	
Iowa-Illinois		136	4	1	1	6	3	1	2	1	8	4	1	6	4	4	9	2	5	3			1	9		4		1	1	38	2	2	11	2	
Burlington		3	1	1																												1			
Madison	2	396	14	5	16	32	5		2	6	10	13	9	13	6	26	44	18	18	17	1	4	41	20	2		3	4	42	3	4	9	9		
Milwaukee	2	1,004	25	13	6	47	10	9	18	11	35	43	7	39	50	60	81	25	42	18	6	21	85	11	17	8	4	4	155	18	20	95	21		
Racine-Kenosha		77	2		1	5	2	4	2	4	2	3		5	5	4	3	1	3	5	1	1	5	3	2	2			5	1	2	4			
Nebraska		418	12	14	9	18	9	12	3	9	10	18	4	12	17	20	31	4	18	24	5	7	12	7	12	4	2	4	104	1	1	8	7		
Northeast Michigan	1	158	4	2	2	6	4	2	4	1	10	5		12	2	15	12	3	4	4	5	4	5	4	2	3	2		17	5	3	15	1		
Northeast Wisconsin		155	9	5	3	13	3	4	1	3	5	7	2	4	6	10	12	1	1	5	1	2	10	5	1			1	30		1	9	1		
Rock River Valley	1	167	9	2	1	9	2	2	2	2	10	4		20	9	7	14	1	2	8	1	6	10	1	2	2	1	1	21	2	2	14			
Siouxland		45	3	8		2	1	2		1	2						2	2	2	3	1											15		1	
South Bend	3	332	27	5	7	29	8	2	4	1	4	20	16	9	18	26	30	11	9	11	1	4	26	6	6	1	2	3	16	2	5	15	8		
Southeastern Michigan	11	2,427	63	20	108	156	31	75	25	21	76	110	87	72	77	138	263	106	64	107	13	15	143	42	23	15	21	10	303	8	41	115	79		
Southern Minnesota	1	144	6	3		11	3	8	2	7	4	2	4	1	6	7	29	1	20	3	1	4	4			4			6	1	1	1	5		
Toledo	1	218	14	1	2	5	1	3	2	1	11	3	3	23	10	11	11	4	7	4	5	6	24	4	4	1	4	1	30	5	1	12	5		
Twin Cities	14	1,640	44	22	14	93	18	17	39	7	46	80	38	37	89	99	337	17	56	72	10	31	103	22	32	11	12	5	127	15	65	28	54		
Red River Valley		118	4	3	2	11	1	1	2	1	2	3	4	4	4	8	15	1	4	7			9	1	5	1		2	17	1		2	3		
West Michigan	2	171	7	4	5	9	1	6	3	2	4	10	3	4	16	6	14	2	6	6	1	2	10	4	6	2	3	1	16	3	2	9	4		
	95	14,612	557	198	334	844	225	305	224	372	415	586	354	448	761	829	1566	395	470	749	109	225	779	234	222	118	92	71	1757	139	268	625	341		

SECTION C

TABLE 2 - 1967 IEEE GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

Region 5 Section	Total Affil- itates	Total Group Members	A&E G-1	B G-2	AP G-3	CT G-4	NS G-5	VT G-6	R G-7	BTR G-8	IM G-9	AES G-10	IT G-12	IECI G-13	EM G-14	ED G-15	C G-16	MTT G-17	EMB G-18	Com Tech G-19	SU G-20	PMP G-21	AC G-23	E G-25	EWS G-26	EMC G-27	MMS G-28	GeoS G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35	
Arkansas		108	9	3		1	2	1	1	4	4	3		4	4	3		3	5	2	1	2	1				2	38	5	1	6			
Beaumont		80	3	5	1	1		4			1			12	2	1	4			5	1		10	3	3			3	14	1			4	2
Lake Charles		8										2				1		1	1									2					1	
Central Texas	4	744	30	7	38	47	17	6	6	6	22	28	33	7	17	57	86	21	49	27	6	7	37	15	11	20	2	24	74	2	6	12	24	
Corpus Christi		87	4	1	3	5	1	2			2	5		2	2	8	4			6			3		1		2	1	28		2	4	1	
Victoria Port Lavaca		8												2	1													2				3		
Dallas	2	2,089	67	29	105	146	21	40	45	28	56	174	75	36	107	147	192	163	31	114	15	26	78	18	29	18	6	65	153	8	24	22	50	
Denver	8	1,223	29	20	79	83	17	7	9	11	93	86	18	18	45	68	96	67	53	78	6	8	63	24	13	11	2	18	140	2	17	22	21	
Black Hills		58	2	2	8	1		1				6			2	2	7	2	1	5			4	2			3	5		3	2			
Pikes Peak		138	4	4	2	12	5		3	2	5	11	5	2	3	10	16	6	5	3		1	14	1		3	1	3	8	1		2	6	
El Paso		299	7	2	19	21	7	7	2	4	16	28	12	5	14	19	26	11	8	23	3	3	10	3	11	4	2	4	17		2	6	3	
Fort Worth	3	331	11	2	16	16	4	6	7	3	8	40	6	3	11	16	32	17	5	12		2	22	6	4	7	1	3	59	1	4	3	4	
Houston	8	1,410	48	17	36	74	20	21	13	8	50	102	49	35	51	61	185	21	58	78	13	9	70	12	12	8	6	96	172	5	11	37	32	
Freeport		29		1							1	2		2	1	1	2		2				1		1	1		1	9	1		3		
Kansas City	5	572	17	8	27	47	11	11	9	9	19	24	9	14	23	37	35	25	28	22	5	9	17	15	12	1	4	6	87	5	7	14	15	
Oklahoma City	1	283	7	3	9	10	3	4	1	3	4	21		4	16	22	32	2	9	23	1		7	2	8	2	3	67		4	8	8		
Ozark		122	9	2	1	9	1	1		2	1	9	2	1	5	12	19	3	1	7			11	3	3		2	12	1		2	3		
Panhandle		18		1		1						1					1		1				1		1			9			1	1		
Permian Basin		11	2	1							1			1														1	3			2		
St. Louis	8	1,540	36	13	38	106	24	13	28	6	40	147	40	40	59	123	176	49	61	57	4	20	89	22	23	9	5	7	157	15	11	93	29	
Shreveport		179	14	4	2	6		5	4	4	6	1	2	2	7	7	5	2	4	8	1	1	5	5	3	2	1	1	69		1	6	1	
Monroe		20	3	1					1	1		2		2			2						1					1	3			2		
South Plains		93	6	2	2	11	5	2	1		3	5	4	2	2	13	7	7	2	5			4	5	1			1	5			1	2	
Tulsa	1	428	12	9	10	24	6	5	5	7	18	24	12	9	9	26	30	6	10	12	7	5	20	7	4	5	2	28	82	3	4	14	13	
West Central Texas		25	1		1	1		2				1	1		2		1	1		4					3			1	5				1	
Wichita		146	4	3	6	17	1	1		3	10	10	2	5	5	6	20	3	2	8		1	13	1	2	1	1	1	10	2		5	3	
	40	10,049	325	140	403	639	145	139	135	101	360	732	270	208	388	640	981	402	333	503	64	93	482	145	145	92	37	273	1230	52	97	276	219	

SECTION C

TABLE 2 - 1967 IEEE GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

REGION 6 Section	Total Affili- ates	Total Group Members	A&E G-1	B G-2	AP G-3	CT G-4	NS G-5	VT G-6	R G-7	BTR G-8	IM G-9	AES G-10	IT G-12	IECI G-13	EM G-14	ED G-15	C G-16	MTT G-17	EMB G-18	Com Tech G-19	SU G-20	PMP G-21	AC G-23	E G-25	EWS G-26	EMC G-27	MMS G-28	GeoS G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35	
Alamogordo-Holloman	1	58	1		5	2	1	1	3		2	9			4	1	7	3	2	3	1		4		4	1		1						3
Alaska		109	4	2	3	5	3	2		1	3	11		1	3	8	4	6	1	13		1	1	2	3		1	6	18	1		4	2	
Albuquerque	4	377	11	4	14	30	30	5	9	2	23	27	11	6	10	38	34	11	13	10	6	6	13	6	7	3	3	3	19		5	5	13	
Los Alamos-Santa Fe	2	109	3		2	5	39	1			9	3	1	2		10	13	2	2	3		1	5		1	1		2		1		1	2	
Antelope Valley		34	3		2	4					3	6	1			1	4	1		2			3			1			1		1	1		
Boise		26				2		2							1	1				2						1				17				
Buenaventura	1	289	10	1	9	23	4		7	3	11	35	8	4	37	16	33	12	6	8	1	6	11	2	10	7	5	4	3	1	4	8		
China Lake	1	87	4	1	3	8		3	5	1	3	16	1	1	3	1	4	11		4	1	2	6		1				4			2	2	
Foothill	7	812	19	9	41	45	10	11	21	7	34	90	31	20	56	28	74	49	17	36	11	14	40	16	19	11	3	14	38	4	10	16	18	
Fort Huachuca	1	99	3	3	5	1	2	2	1	1	6	18	2	1	4	2	5	2	1	12	1	1	1	2	6	6	1	2	2	1	1	1	3	
Hawaii		269	4	1	12	14	4	2	2		11	18	13	4	13	6	24	8	3	33	3		9	2	13	9	4	9	28	3	1	7	9	
Idaho	1	64	2				20	1	1		8	2		6		3	3						3	2	1			1	4	1	1	4	1	
Las Vegas	1	97	4		8	4	11	3		1	5	5	1	5	2	6	1	6	2	9		1	3		4	1			12	1		1	1	
Met. Los Angeles	12	1,266	47	12	32	68	18	31	17	11	37	86	36	24	37	57	153	52	49	68	8	21	56	13	29	13	11	7	163	12	26	35	37	
Montana		1															1																	
Billings		15									1	1			2		1			1					1			1	7					
Butte		23	2			1								1	1		1			1	2		1				1		9	1		1	1	
Helena		69	4		3	5	1				2	6	4	1	2	6	7	1	3	3		1	8	2			1	2		1	2	4		
Orange County	14	2,817	74	20	100	159	46	29	73	27	113	355	96	52	175	159	411	124	75	128	25	65	161	16	41	31	30	41	53	7	36	25	70	
Phoenix	8	1,025	23	11	25	78	8	10	23	10	19	76	28	15	40	91	152	68	23	46	6	19	43	8	20	11	5	5	104	5	18	15	20	
Portland	2	631	23	7	8	30	13	10	6	2	38	5	7	19	20	26	29	12	18	21	5	8	20	5	19	11	2	4	222	10	7	18	6	
Eugene	1	186	7	3	3	21	4	3			4	8	4	4	5	17	26	6	5	9			9	7	1		3	2	22	1	2	4	6	
Richland	3	79	2	3		3	13		4		4	4	1	5	4	4	1		5	2	1		3		1		1	13	1		4			
Walla Walla		24				2		1				1			1		3		2				1	1		1			9			1	1	
Sacramento	1	369	14	5	7	21	12	12	5	3	18	14	4	7	11	17	42	6	15	29		1	24	7	11	4	2	2	53	1		15	7	
Reno		55	1	1	1	4	2				1		1	1	2	4	5	2	3	4			1	1	1		2	12		2	4			
San Joaquin		54	5	3		5		3		2	2	3		3	1	2	4	1	2	1			1	2	1		1	1	7		1	3		
Shasta		20		1			1	2	1	1	2					1	1		1	2	1	1			1	1		2			1			
San Diego	5	1,074	37	7	66	57	18	15	24	15	48	121	52	12	45	39	106	65	39	78	18	13	46	7	11	17	9	24	42	3	11	7	22	
San Fernando Valley	15	2,281	68	30	106	118	39	33	62	32	73	290	81	37	115	87	289	135	63	100	17	49	99	21	32	41	28	28	52	11	39	28	78	
San Francisco	9	1,844	58	31	58	114	37	46	13	28	41	88	51	40	98	122	126	105	46	132	20	26	51	20	38	20	16	22	247	12	35	61	42	
East Bay	16	1,239	41	14	32	98	97	8	10	13	56	34	23	36	43	103	129	40	59	32	8	13	68	15	13	4	9	8	130	7	15	50	31	
Santa Clara Valley	28	4,686	134	30	178	304	96	52	93	63	187	380	179	79	219	486	515	356	119	230	26	91	232	49	62	49	33	41	102	10	90	44	157	
San Gabriel Valley	7	1,068	44	11	41	45	24	13	24	14	62	100	46	22	43	59	101	44	36	56	13	20	44	7	17	9	7	29	63	6	22	27	19	
Santa Barbara	1	475	16	5	22	33	13	5	6	8	16	33	28	10	16	43	50	32	13	17	5	7	24	8	6	6	4	12	9	2	9	6	11	
Santa Monica Bay	25	1,905	41	11	79	117	31	17	45	19	54	209	100	28	80	117	245	88	70	97	7	43	135	19	20	27	24	21	25	4	33	16	83	
Seattle	7	1,439	45	13	95	78	28	12	17	9	54	176	45	23	88	49	103	51	54	85	14	24	85	18	26	42	7	16	94	7	7	39	35	
Tacoma		48	6	1	1	2		2		1		3	1	2	3		1			1			3		1	1			16			3		
South Bay Harbor	11	1,859	57	11	75	112	16	22	47	25	56	247	81	34	75	96	206	103	45	99	7	42	143	18	28	30	15	13	36	2	39	32	47	
Spokane	1	171	5	4	4	15	4	8		3	4	5	1	3	7	11	13	2	3	6	1	1	6	5		1	1	2	47			5	4	
Tucson	1	279	8	1	16	15	4	6	7	7	6	19	6	5	14	29	32	10	11	14	2	5	13	6	3	14	1	3	9		3		10	
Utah	1	376	20	7	6	27	3	4	6	3	12	20	6	5	17	48	48	12	18	15		1	18	11	8	1	2	7	28		1	11	11	
Vandenberg		145	4	1	4	6	1	1	2	1	10	32	2	1	34		13	1	1	7			4		6	6	1	1	1		1	1	3	
Wenatchee		20	2	1										1		1	1			1									10					3
	187	27,973	856	265	1066	1681	653	378	534	313	1038	2556	952	520	1330	1795	3022	1427	826	1421	208	484	1397	293	467	380	229	336	1735	115	421	497	773	

SECTION C

TABLE 2 - 1967 IEEE GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

REGION 7	Total Affiliates	Total Group Members	A&E G-1	B G-2	AP G-3	CT G-4	NS G-5	VT G-6	R G-7	BTR G-8	IM G-9	AES G-10	IT G-12	IECI G-13	EM G-14	ED G-15	C G-16	MTT G-17	EMB G-18	Com Tech G-19	SU G-20	PMP G-21	AC G-23	E G-25	EWS G-26	EMC G-27	MMS G-28	GeoS G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35	
Bay of Quinte		229	9	6	6	7	7	2	3		6	9	5	11	4	8	21	6	8	12	1	6	26	5	6	4	1	3	23	2	3	15	4	
Canadian Atlantic		217	6	3	3	18		4	3	1	10	9	4	8	5	13	13	5	11	24	4	2	11	10		1	1	4	29	1		10	4	
Hamilton		254	14	4	4	10	2	1	4	10	5	4	6	10	11	25	16	4	6	12	2	2	18	3	8	1		2	37	9	2	18	4	
Kitchener-Waterloo		182	18	3	7	16	2	2	1	12	4	5	5	4	3	7	17	4	2	8	1	1	18	4	5		7		9	3	2	4	8	
Guelph		26	1	1	1				1	1				2		2							1		1				9	3	1	2		
London		128	7	2	5	3	1	1	3	3	6	5		5	6	5	7	2	5	4	3	2	8	6	4	1	2		21	2	2	4	3	
Montreal	6	1,229	43	29	33	56	24	30	19	15	47	48	22	48	52	33	60	60	56	110	11	14	57	24	25	9	6	9	171	15	9	57	37	
Niagara International		136	8		4	6		3	1	4	5	7	2	8	5	4	8	5	4	6	1	4	6	3	1			1	22	3	2	12	1	
Northern Alberta		300	17	5	7	21	6	7	1	6	6	14	6	9	7	42	17	15	16	30	1		14	3	7	1		3	29	1	1	5	3	
Ottawa	8	793	33	11	34	46	17	4	14	10	39	61	30	10	28	47	88	38	12	77	2	10	36	11	17	11	9	14	37	6	8	9	24	
Quebec		196	9	6	9	7	2	5	3	6	6	5	4	9	8	5	10	9	5	10	2	1	20	3	1	1	1	2	27	2	1	11	6	
Regina		108	3		2	1		1	2	1	2	4	1	6	8	6	13	2	4	5		1	12	2	3			1	19			6	3	
St. Maurice		19		1	1	1	1			1	1			1		1				1				1	1				7				1	
Southern Alberta		205	15	7	4	11	7	3		8	7	15	4	9	5	7	18	9	7	30	1	1	6	2	3		2	4	12				6	2
Toronto	4	1,502	77	34	44	84	28	35	13	39	55	52	14	65	49	84	103	39	54	83	2	14	58	38	26	11	11	16	233	15	21	75	30	
Vancouver		548	28	17	18	18	2	21	1	9	10	12	6	23	16	32	34	23	8	49	2	3	24	8	10	6	1	8	119	5	4	26	5	
Victoria		47	1		1	2	2	4			1	2			5		6	1	2	3			2	1		1		2	7			3	1	
Winnipeg		364	11	8	10	25	11	10	6	14	7	23	2	10	6	18	21	10	16	29	3	4	21	2	3		1	6	57	6	1	16	7	
Σ	18	6,483	300	137	193	332	112	133	75	140	217	275	111	238	218	339	452	232	216	493	36	66	337	127	120	47	42	75	868	73	57	279	143	

REGION 8

REGION 8	Total Affiliates	Total Group Members	A&E G-1	B G-2	AP G-3	CT G-4	NS G-5	VT G-6	R G-7	BTR G-8	IM G-9	AES G-10	IT G-12	IECI G-13	EM G-14	ED G-15	C G-16	MTT G-17	EMB G-18	Com Tech G-19	SU G-20	PMP G-21	AC G-23	E G-25	EWS G-26	EMC G-27	MMS G-28	GeoS G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35
Benelux	2	903	33	13	30	60	35	20	21	17	42	43	48	31	22	65	79	38	20	43	18	19	51	14	11	12	9	8	30	10	21	19	21
Egypt		85	1	2	6	8	3			7	4	4	1	1	1	7	9	7		6			5	2					7		2	2	
France	11	1,072	23	13	38	58	32	17	40	18	43	69	49	39	23	59	86	53	31	42	20	40	52	19	12	11	9	18	40	21	38	32	27
Germany (West)	7	457	8	5	23	36	7	4	12	6	19	33	28	10	11	30	47	28	8	19	7	14	22	8	4	5	5	4	14	2	17	6	15
Israel	1	329	11	3	8	30	11	10	10	6	13	17	12	14	8	11	40	8	14	15	2	8	25	4	5	5	6	2	5	4	7	3	12
Middle & South Italy	1	452	10	5	28	36	8	9	12	9	18	21	30	12	6	30	43	30	18	21	7	11	29	5	5	6	6	4	6	2	4	3	18
North Italy	4	658	25	6	18	48	16	11	15	14	29	21	23	25	18	35	78	20	22	26	11	21	43	10	8	9	4	4	32	11	11	16	28
Norway		172	6	5	8	10	2	3	7	4	8	9	7	6	1	11	14	9	3	15	5	6	7			1	2	3	7	3	1	5	4
Sweden	6	816	23	6	30	60	16	21	28	16	39	45	29	25	17	54	41	47	37	49	14	34	37	13	12	15	15	5	28	12	10	21	17
Switzerland		582	17	9	10	36	18	6	13	13	33	27	20	21	16	43	36	35	19	37	9	18	24	8	9	7	4	5	40	14	14	10	11
United Kingdom & Rep. of Ireland	20	1,207	30	16	41	75	27	20	27	28	57	46	34	43	41	76	82	78	26	75	24	32	45	19	16	9	12	10	113	17	25	45	18
Subtotals	52	6,733	187	83	240	457	175	121	185	138	305	335	281	227	164	421	555	353	198	348	117	203	340	102	82	80	72	63	322	96	150	162	171
Territory not assigned to IEEE Sections	6	1,181	41	21	57	81	22	26	30	33	49	40	43	49	32	75	67	68	29	66	13	29	59	23	14	17	15	11	89	17	15	25	25
Σ	58	7,914	228	104	297	538	197	147	215	171	354	375	324	276	196	496	622	421	227	414	130	232	399	125	96	97	87	74	411	113	165	187	196

SECTION C

TABLE 2 - 1967 IEEE GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

REGION 9	Total Affiliates	Total Group Members	A&E G-1	B G-2	AP G-3	CT G-4	NS G-5	VT G-6	R G-7	BTR G-8	IM G-9	AES G-10	IT G-12	IECI G-13	EM G-14	ED G-15	C G-16	MTT G-17	EMB G-18	Com Tech G-19	SU G-20	PMP G-21	AC G-23	E G-25	EWS G-26	EMC G-27	MMS G-28	GeoS G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35
Buenos Aires	1	328	23	7	16	21	4	4	2	19	6	6	5	27	5	22	23	21	28	19	2	1	24	1	2		1	1	19	1		8	10
Chile		104	3	1	7	8			1	1	3	3	3	6	6	6	6	6	4	6	2	1	7	5	3	1			8	2	1	2	2
Colombia		138	4	2	15	9	1	2		5	4	5	1	6	1	17	7	5	6	10			9	1		1			21			6	
Mexico		380	10	3	7	13	5	2	4	13	14	4	4	11	27	6	11	6	5	12	2	7	16	10	7	1		3	123	16	2	29	7
Peru		114	1		4	8	1	1		1	2	3	1	5	5	2	5	3	4	9	1		4	7	2			32	1		8	4	
Puerto Rico & Virgin Islands		192	9	4	3	12	3	4	1	6	5	6	1	4	11	15	12	7	4	16	1	1	5	1	6	1		1	40	1	1	9	2
Rio de Janeiro		82	1		5	2		1	1	1	2	1	3	2	2	5	2	5	1	13			3		1				25	2		2	2
Sao Paulo		98	7	2	5	2		2	1	9	5	1		4	4	4	3	2	3	3		6	5	1	3	2		3	14	1		4	2
Venezuelan	1	341	6	5	30	9	3	8	2	5	7	4	4	9	16	13	7	27	5	59	1	1	10	3	5	3	2	1	66	2	1	23	4
Subtotals not assigned to IEEE Sections	3	1,777	64	24	92	84	17	24	12	60	48	33	22	74	77	90	76	82	60	147	9	17	83	29	29	9	3	9	348	26	5	91	33
Territory		180	6	10	9	7	1	7	2	4	7	1		4	10	4	4	7	6	12		4	3	2	5			1	38	2		22	2
	3	1,957	70	34	101	91	18	31	14	64	55	34	22	78	87	94	80	89	66	159	9	21	86	31	34	9	3	10	386	28	5	113	35

REGION 10

Section	Total Affiliates	Total Group Members	A&E G-1	B G-2	AP G-3	CT G-4	NS G-5	VT G-6	R G-7	BTR G-8	IM G-9	AES G-10	IT G-12	IECI G-13	EM G-14	ED G-15	C G-16	MTT G-17	EMB G-18	Com Tech G-19	SU G-20	PMP G-21	AC G-23	E G-25	EWS G-26	EMC G-27	MMS G-28	GeoS G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35
Kanpur (India)		7								1							1		1				4										
Tokyo	15	3,040	75	61	132	164	67	55	76	81	108	96	130	96	56	251	182	189	77	143	72	96	128	49	47	50	57	44	120	68	99	95	76
Subtotals not assigned to IEEE Sections	15	3,047	75	61	132	164	67	55	76	82	108	96	130	96	56	251	183	189	78	143	75	96	132	49	47	50	57	44	120	68	99	95	76
Territory	5	1,523	57	38	58	93	28	27	21	59	53	40	30	67	57	64	79	53	34	79	11	17	84	32	32	10	9	19	256	9	17	54	36
	20	4,570	132	99	190	257	95	82	97	141	161	136	160	163	113	315	262	242	112	222	83	113	216	81	79	60	66	63	376	77	116	149	112

U. S. Overseas

Military		714	41	13	46	26	6	12	5	6	12	97	15	11	50	19	50	28	6	110	2		24	5	19	14	4		64		2	15	12
U. S. Possessions		42	2	1	1	8	1		1		2	3	1	2		3	1			4			1	2		2	2		2			2	1
		756	43	14	47	34	7	12	6	6	14	100	16	13	50	22	51	28	6	114	2		25	7	19	16	6		66		2	17	13

GROUP NAME
G-1 Audio and Electroacoustics
G-2 Broadcasting
G-3 Antennas and Propagation
G-4 Circuit Theory
G-5 Nuclear Science
G-6 Vehicular Technology
G-7 Reliability
G-8 Broadcast and Television Receivers
G-9 Instrumentation and Measurements
G-10 Aerospace and Electronic Systems
G-12 Information Theory
G-13 Industrial Electronics and Control Instrumentation
G-14 Engineering Management
G-15 Electron Devices
G-16 Computer
G-17 Microwave Theory and Techniques
G-18 Engineering in Medicine and Biology
G-19 Communication Technology
G-20 Sonics and Ultrasonics
G-21 Parts, Materials and Packaging
G-23 Automatic Control
G-25 Education
G-26 Engineering Writing and Speech
G-27 Electromagnetic Compatibility
G-28 Man-Machine Systems
G-29 Geoscience Electronics
G-31 Power
G-32 Electrical Insulation
G-33 Magnetics
G-34 Industry and General Applications
G-35 Systems Science and Cybernetics

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SECTION C

TABLE 3 - IEEE GROUP CHAPTERS
as of December 31, 1967

Group Code #	Name of Group	No. of Chapters	Section Locations		
G-10	Aerospace & Electronic Systems	41	Atlanta	Huntsville	Rochester
			Baltimore	Lima	St. Louis
			Binghamton	Long Island	San Diego
			Boston	Los Angeles	San Francisco
			Buffalo	Mid. Tenn.	Seattle
			Canaveral	Mohawk Valley	So. Carolina
			Cent. Ind.	Nebraska	SE Michigan
			Chicago	N.J. Coast	Tucson/Ft. H.
			Cleveland	N. Y./No. J.	Twin Cities
			Columbus	Oklahoma City	Utah
			Dayton	Orlando	Vancouver
			Daytona	Ottawa	Wash. D.C.
			Denver	Philadelphia	Syracuse
	Houston	Providence			
G-3	Antennas & Propagation	33	Akron	Eastern N. C.	Phoenix
			Baltimore	Foothill	St. Louis
			Boston	Huntsville	San Diego
			Buffalo	Kansas City	San Francisco
			Cent. Pa.	Long Island	Seattle
			Chicago	Los Angeles	SE Michigan
			Columbus	Montreal	Syracuse
			Conn.	New Hampshire	Toronto
			Dallas	New Orleans	Tucson
			Dayton	Orange Cty.	Vancouver
			Denver	Philadelphia	Wash. D.C.
G-1	Audio & Electroacoustics	13	Cent. Ind.	Houston	San Francisco
			Chicago	Kitchener-Waterloo	Shreveport
			Cincinnati	Philadelphia	Twin Cities
			Cleveland	San Diego	Wash. D.C.
G-23	Automatic Control	23	Baltimore	Long Island	San Francisco
			Buffalo	Los Angeles	Schenectady
			Cent. Va.	Milwaukee	Seattle
			Chicago	New York	SE Michigan
			Dallas	No. Jersey	Toledo
			Dayton	Philadelphia	Twin Cities
			Houston	Phoenix	Vancouver
			Huntsville	Pittsburgh	
G-2	Broadcasting	7	Cleveland	Philadelphia	Wash. D.C.
			Fla. W.C.	Twin Cities	Winston-Salem
			Houston		
G-8	Broadcast & TV Receivers	3	Cent. Ind.	Chicago	Philadelphia
G-4	Circuit Theory	12	Cent. Ill.	Houston	Portland
			Cent. Texas	Los Angeles	San Francisco
			Chicago	Nebraska	Syracuse
			Cleveland	Philadelphia	United Kingdom
G-19	Communication Technology	40	Alabama	Long Island	Rochester
			Atlanta	Los Angeles	Sacramento
			Baltimore	Mohawk Valley	San Diego
			Boston	Montreal	San Francisco
			Canaveral	Nebraska	Seattle
			Chattanooga	N.J. Coast	Shreveport
			Chicago	New Orleans	SE Michigan
			Columbus	New York	Syracuse
			Conn.	No. Jersey	Toronto
			Dallas	Orlando	Twin Cities
			Denver	Ottawa	Vancouver
			East Tenn.	Philadelphia	Wash. D.C.
			Fla. W.C.	Phoenix	
			Houston	Pittsburgh	

Group Code #	Name of Group	No. of Chapters	Section	Locations	
G-16	Computer	38	Akron	Huntsville	Portland
			Baltimore	Long Island	St. Louis
			Binghamton	Los Angeles	San Diego
			Boston	Mohawk Valley	San Francisco
			Cent. Texas	Nebraska	Schenectady
			Chicago	N.J. Coast	SE Michigan
			Cleveland	New York	Syracuse
			Conn.	No. Jersey	Tokyo
			Dallas	Orange Cty.	Twin Cities
			Dayton	Orlando	Utah
			Daytona	Philadelphia	Vancouver
			French	Phoenix	Wash. D.C.
			Houston	Pittsburgh	
G-25	Education	2	San Francisco	Utah	
G-27	Electromagnetic Compatibility	15	Atlanta	Huntsville	NY/LI/No. J.
			Boston	Los Angeles	Philadelphia
			Canaveral	Mohawk Valley	San Francisco
			Cent. Texas	N.J. Coast	Seattle
			Chicago	New Orleans	Wash. D.C.
G-15	Electron Devices	18	Albuquerque	NY/LI/No. J.	San Francisco
			Boston	Philadelphia	Schenectady
			Conn.	Phoenix	SE Michigan
			Lehigh Valley	Pittsburgh	Syracuse
			Los Angeles	Portland	Twin Cities
			Nebraska	St. Louis	Wash. D.C.
G-14	Engineering Management	24	Baltimore	Conn.	Orange Cty.
			Binghamton	Dayton	Philadelphia
			Boston	Denver	San Francisco
			Buenaventura	Huntsville	Seattle
			Canaveral	Los Angeles	Syracuse
			Cent. Ind.	Mohawk Valley	Twin Cities
			Chicago	New Orleans	Vandenbergh
			Cleveland	NY/LI/No. J.	Wash. D.C.
G-18	Engineering in Medicine & Biology	24	Baltimore	Los Angeles	Philadelphia
			Boston	Memphis	Portland
			Cent. Texas	Milwaukee	Rochester
			Chicago	Montreal	San Diego
			Cleveland	Nebraska	San Francisco
			Dayton	N.J. Coast	Seattle
			Denver	New Orleans	Twin Cities
			Houston	NY/LI/NJ/Prin.	Wash. D.C.
G-26	Engineering Writing & Speech	5	Buffalo	Los Angeles	Philadelphia
			Chicago	No. Jersey	
G-29	Geoscience Electronics	4	Houston	Tulsa	Wash. D.C.
			Providence		
G-13	Indl. Electronics & Control Instrument.	7	Beaumont	Cleveland	San Francisco
			Boston	Conn.	Vancouver
			Chicago		
G-34	Industry & General Applications	23	Akron	Delaware Bay	St. Louis
			Baltimore	Houston	San Francisco
			Boston	Los Angeles	Schenectady
			Buffalo	Milwaukee	Seattle
			Chicago	NY/LI	SE Michigan
			Cincinnati	Philadelphia	Syracuse
			Cleveland	Pittsburgh	Vancouver
			Conn.	Sacramento	
G-12	Information Theory	13	Baltimore	Los Angeles	San Francisco
			Boston	Nebraska	SE Michigan
			Buffalo	NY/LI/No. J.	Syracuse
			Chicago/Cent.	Philadelphia	Wash. D.C.
			Ill & Ind. & So. Bend	Phoenix	
G-9	Instrumentation & Measurement	15	Boston	Miami	Portland
			Chicago	Montreal	San Francisco
			Houston	NY/LI/No. J.	Shreveport
			Idaho	Ottawa	Utah
			Los Angeles	Philadelphia	Wash. D.C.

Group Code #	Name of Group	Np. of Chapters	Section	Locations	
G-33	Magnetics	5	LehighValley Los Angeles	Princeton San Francisco	Twin Cities
G-28	Man Machine Systems	1	N.J. Coast		
G-17	Microwave Theory & Techniques	35	Baltimore Boston Buffalo Chicago Columbus Conn. Dallas Denver East. N.C. Fla. W.C. Foothill Huntsville	Kansas City Long Island Los Angeles Milwaukee Montreal NewHampshire New York No. Jersey Orange Cty. Orlando Philadelphia Phoenix	St. Louis San Diego San Francisco Schenectady Seattle S. E. Michigan Syracuse Tokyo Toronto Tucson Wash. D.C.
G-5	Nuclear Science	8	Boston Chicago Conn.	Dayton Idaho Los Angeles	San Francisco Wash. D.C.
G-21	Parts, Materials & Packagin	13	Baltimore Boston Chicago Dayton Houston	Los Angeles Nebraska N.J. Coast NY/LI/No. J. Philadelphia	San Francisco Seattle Wash. D.C.
G-31	Power	75	Akron Alabama Atlanta Baltimore Beaumont Berkshire Binghamton Boston Buenos Aires Buffalo Canaveral Canton Cent. Ill. Cent. Ind. Cent. Texas Charlotte Chattanooga Chicago Cincinnati Cleveland Conn. CorpusChristi Dallas Dayton DelawareBay	Denver East Tenn. Fla. W.C. Foothill Ft. Worth Houston Kansas City LehighValley Los Angeles Madison Maine Memphis Miami Mid Hudson Mid. Tenn. Milwaukee Montreal Nebraska NewHampshire New Orleans NY/LI No. Jersey OklahomaCity Orlando Ottawa	Panhandle Philadelphia Phoenix Pittsburgh Portland Rochester Sacramento St. Louis San Diego San Francisco Schenectady Seattle Sharon Shreveport SE Michigan Spokane Syracuse Tokyo Toledo Toronto Tulsa Twin Cities Utah Vancouver Wash. D.C.
G-7	Reliability	18	Baltimore Binghamton Boston Canaveral Chicago Daytona	Conn. Fla. W.C. Huntsville Los Angeles MohawkValley N.J. Coast	No. Jersey Philadelphia San Diego San Francisco Twin Cities Wash. D.C.
G-35	Systems Science & Cybernetics	7	Boston Los Angeles Montreal	N.J. Coast San Francisco	Schenectady Wash. D.C.
G-6	Vehicular Technology	16	Chicago Cleveland Dallas Fla. W.C. Los Angeles	Montreal Nebraska NY/LI/No. J. Philadelphia Pittsburgh San Francisco	SE Michigan Toronto Twin Cities Vancouver Wash. D.C.
29 Groups		486 Chapters		100 Sections	

SECTION D

Table 1 - IEEE Group Affiliates, December 31, 1967; 4-year Comparison

Group No.	Group Name	12/31/67	12/31/66	12/31/65	12/31/64
1	Audio and Electroacoustics	3	2	2	4
2	Broadcasting	-	-	-	-
3	Antennas and Propagation	3	3	3	6
4	Circuit Theory	1	-	1	3
5	Nuclear Science	138	99	55	118
6	Vehicular Technology	11	4	-	1
7	Reliability	21	20	19	71
8	Broadcast and Television Receivers	-	-	-	-
9	Instrumentation and Measurements	1	1	1	2
10	Aerospace and Electronic Systems	11	8	8	11
12	Information Theory	19	19	22	52
13	Industrial Electronics and Control Instrumentation	-	-	-	-
14	Engineering Management	46	37	31	80
15	Electron Devices	109	114	69	12
16	Computer	115	89	68	192
17	Microwave Theory and Techniques	11	6	5	8
18	Engineering in Medicine and Biology	129	120	76	369
19	Communication Technology	2	3	1	1
20	Sonics and Ultrasonics	8	10	8	11
21	Parts, Materials and Packaging	3	4	4	11
23	Automatic Control	2	2	2	14
25	Education	2	-	-	10
26	Engineering Writing and Speech	30	13	15	40
27	Electromagnetic Compatibility	3	1	-	10
28	Man-Machine Systems	12	9	7	24
29	Geoscience Electronics	-	1	2	6
31	Power	-	-	1	1
32	Electrical Insulation	11	13	16	14
33	Magnetics	114	114	84	-
34	Industry and General Applications	-	-	-	-
35	Systems Science and Cybernetics	26	27	10	-
		<u>831</u>	<u>719</u>	<u>510</u>	<u>1,071</u>
	Journal of Quantum Electronics (G-15)	94	98	63	
	Journal of Quantum Electronics (G-17)	9	4	2	
		<u>103</u>	<u>102</u>	<u>65</u>	
	Journal of Solid State Circuits (G-4)	1			
	Journal of Solid State Circuits (G-15)	1			
	Journal of Solid State Circuits	3			
		<u>5</u>			

SECTION E

ORGANIZATIONAL UNITS OF IEEE BY REGION

Region Number	1	2	3	4	5	6	7	8	9	10	Other	Total
1967												
Membership	39,534	25,881	13,889	18,442	13,309	30,375	7,568	3,486	1,579	880	3,274	158,217
Sections	23	23	38	22	20	32	17	11	9	2		197
Subsections	9	5	12	6	6	12	1	-	-	-		51
Group Chapters	108	90	51	65	49	93	19	2	1	3		481*
Student Branches	65	42	33	40	35	43	24	7	10	-		299
<hr/>												
1966												
Membership	39,871	26,512	14,436	18,338	13,422	31,411	7,382	3,938	1,416	2,509	835	160,070
Sections	23	23	38	22	20	32	17	11	7	2		195
Subsections	9	6	12	6	7	12	1	-	-	-		53
Group Chapters	105	89	48	64	42	85	15	1	1	2		452*
Student Branches	62	41	32	36	36	45	24	5	5			286
<hr/>												
1965												
Membership	38,522	25,854	13,999	17,941	12,982	30,235	6,825	3,513	3,579		748	154,198
Sections	23	23	38	22	18	32	16	10	8			190
Subsections	9	7	11	6	9	14	1	-	-			57
Group Chapters	97	98	43	70	47	93	13	0	2			463*
Tech. Discussion Groups	13	20	9	8	3	6	5	-	-			64
Student Branches	63	41	31	35	35	41	24	4	4			278
<hr/>												
1964												
Membership	39,005	25,881	13,564	17,748	12,896	30,456	6,597	3,438	3,575		818	153,978
Sections	22	24	33	22	18	32	16	9	8			184
Subsections	10	8	16	7	10	14	1	-	-			66
Group Chapters	84	94	36	69	41	89	15	-	2			430*
Student Branches	62	41	30	35	34	40	21	3	4			270

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

SECTION F

Table 1 - IEEE Publications Output, 1967

	<u>Editorial Pages</u>	<u>Advertising Pages & Filler</u>	<u>Total Pages</u>	<u>Number of Papers</u>	<u>Number of Letters</u>
<u>Regular Journals</u>					
IEEE SPECTRUM	1,308	744	2,052	86	85
PROCEEDINGS OF THE IEEE	2,289	312	2,601	158	573
Group TRANSACTIONS & JOURNALS	17,528	-	17,528	2,252	716
IEEE STUDENT JOURNAL	312	-	312	40	-
Subtotals	21,437	1,056	22,493	2,536	1,374
<u>Other Publications</u>					
Translated Journals	7,493	-	7,493	864	361
Convention Record	2,216	-	2,216	291	-
Conference Records*	2,236	-	2,236	417	-
Preprints	3,840	-	3,840	282	-
Subtotals	15,785	-	15,785	1,854	361
Totals	37,222	1,056	38,278	4,390	1,735

*Produced through Editorial Department.

Table 2 - Group TRANSACTIONS and JOURNALS, 1967

	<u>Number of Issues</u>	<u>Editorial Pages</u>	<u>Number of Papers</u>	<u>Number of Letters</u>
Aerospace & Electronic Systems	6	944*	114	30
Antennas & Propagation	6	880	98	105
Audio & Electroacoustics	4	224	26	1
Automatic Control	6	860*	116	148
Bio-Medical Engineering	4	272	40	9
Broadcast & Television Receivers	3	296	36	-
Broadcasting	4	144	18	-
Circuit Theory	4	488*	41	63
Communication Technology	6	892	129	11
Education	4	286*	61	25
Electrical Insulation	3	176	20	-
Electromagnetic Compatibility	3	168	20	5
Electron Devices	12	928*	112	39
Electronic Computers	6	970*	118	19
Engineering Management	4	218*	24	2
Engineering Writing & Speech	2	72	11	-
Geoscience Electronics	3	112	13	-
Human Factors in Electronics	4	316	36	6
Industrial Electronics & Cont. Instr.	2	96	15	-
Industry & General Applications	6	594*	72	-
Information Theory	4	660*	70	59
Instrumentation & Measurement	4	386*	50	1
Magnetics	4	748*	150	9
Microwave Theory & Techniques	12	828	75	102
Nuclear Science	6	2,442	398	1
Parts, Materials & Packaging	4	214*	20	5
Power Apparatus & Systems	12	1,696*	181	-
Quantum Electronics	12	776	84	56
Reliability	3	156	22	8
Solid-State Circuits	4	250*	27	12
Sonics & Ultrasonics	4	204	28	-
Systems Science & Cybernetics	2	160	20	-
Vehicular Technology	1	72	7	-
Totals	164	17,528	2,252	716

*Estimated. Final issue not published at time of count.

TABLE 3 - GROUP NEWSLETTERS PUBLISHED IN 1967

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
A&E		X			X			X	X		X	
AES	X	X	X	X	X	X	X	X	X	X		X
AP			X					X				
AC	X				X		X			X		
BTR	DOES NOT PUBLISH NEWSLETTER											
B			X				X		X			X
CT				X								
ComTech	X		X			X			X			
Computer	X		X		X		X		X		X	
Education	DOES NOT PUBLISH NEWSLETTER											
EI	X											
EMC		X		X		X				X		
ED	X			X			X			X		
EM		X		X		X		X		X		X
EMB	X			X			X			X		
EWS	X				X			X		X		X
GE			X					X				
IECI			X		X			X				
IGA	X					X				X		
IT					X				X			
IM			X				X					
MAG	X				X							
MMS	X		X		X		X			X		X
MTT		X	X		X		X					X
NS										X		
P	DOES NOT PUBLISH NEWSLETTER											
PMP				X	X							
REL	X			X			X			X		
SU	NO NEWSLETTERS PUBLISHED IN 1967											
SSC		X	X		X				X			X
VT			X			X					X	

SECTION G

TABLE 1 - IEEE & JOINTLY SPONSORED TECHNICAL MEETINGS, 1967

Name of Meeting	Sponsors	Place	Date	Paid Registration	Exhibits	Additional Exhibit Attendance
Electrical & Electronic Measurement Test Instrument Conf. (EEMTIC)	Ottawa Section	Ottawa, Canada	Jan. 9-11	390	Yes	
Symposium on Reliability	G-R, ASQC et al	Washington, D. C.	Jan. 10-12	1087	No	
Computer & Communications Symposium	Los Angeles Council	Santa Monica, California	Jan. 19	75	No	
Conference on Acoustic Noise & Its Control	U. K. & Rep. of Ireland Section	London, England	Jan. 23-27	250	No	
Winter Power Meeting	G-P	New York, N. Y.	Jan. 29 - Feb. 3	2546	No	
Winter Conv. on Aerospace & Electronic Systems	G-AES, L. A. Council	Los Angeles, California	Feb. 7-9	1600	No	
Int'l Solid State Circuits Conference	G-CT, Phila. Section	Phila., Penna.	Feb. 15-17	2130	No	
U. S. Nat'l Particle Accelerator Conference	G-NS et al	Washington, D. C.	March 1-3	816	No	
IEEE Int'l Convention & Exhibition	IEEE	New York, N. Y.	March 20- 23	58000	Yes	
Photovoltaic Specialists Conference	G-ED	Cocoa Beach, Florida	March 28-30	156	No	
Mining Technical Conference	G-IGA, MEMMA	Washington Penna.	April 1	541	No	
Rubber & Plastics Industries Technical Conference	G-IGA	Akron, Ohio	April 3-4	266	No	
Int'l Magnetics Conference (INTERMAG)	G-MAG	Washington, D. C.	April 5-7	750	Yes	
Conf. on P. A. L. Colour Television System	U. K. & Rep. of Ireland Sec.	Nottingham, England	April 10-14	266	No	
Cleveland Electronics Conference	Cleveland Sec. et al	Cleveland, Ohio	April 11-13	2802	Yes	
Region 3 Meeting	Region 3	Jackson, Miss.	April 17-19	282	Yes	
Spring Joint Computer Conference	G-C, AFIPS	Atlantic City, New Jersey	April 18-20	5203	Yes	5522
Electronics & Instrument- ation Conf. & Exhibition	Cincinnati Section	Cincinnati, Ohio	April 19-20	1313	Yes	
Southwestern IEEE Conf. & Exhibition (SWIEEEO)	Region 5	Dallas, Texas	April 19-21	4383	Yes	
Semiconductor Device Research Conference	Region 8, DPG, VDE, NTG	Bad Nauheim, Germany	April 19-22	75	No	
Middle Atlantic States Industry Tech. Conference	G-IGA	Charlotte, N. Carolina	April 20-21	225	No	
Joint Railroad Conference	G-IGA, ASME	Erie, Penna.	April 25-26	321	No	
American Power Conference	G-P, Ill. Inst. of Tech. et al	Chicago, Ill.	April 25-27	3150	No	
Rocky Mountain Bioengin- eering Symposium	Denver Sect., Nat'l Insts. of Health	Denver, Colo	May 1-2	95	Yes	

<u>Name of Meeting</u>	<u>Sponsors</u>	<u>Place</u>	<u>Date</u>	<u>Paid Registration</u>	<u>Exhibits</u>	<u>Additional Exhibit Attendance</u>
Rural Electrification Conference	G-IGA	Cedar Rapids Iowa	May 1-2	264	No	
Insulation Coordination Forum	G-P, Little Rock Section	Little Rock, Arkansas	May 2-3	220	No	
Conference on Integrated Circuits	U.K. & Rep. of Ire. Section, IEE, IERE	Eastbourne, England	May 2-4	500	No	
Pulp & Paper Industry Technical Conference	G-IGA	Houston, Texas	May 2-5	317	No	
Nat'l Colloquium on Information Retrieval	Phila. Section, et al	Phila., Penna.	May 3-4	200	No	
Electronic Components Technical Conference	G-PMP, EIA	Washington, D.C.	May 3-5	785	No	
Conference on Human Factors in Electronics	G-HFE	Palo Alto, California	May 3-5	302	Yes	
Int'l Microwave Symposium	G-MTT	Boston, Mass.	May 8-11	7942	No	
Symp. on Electron, Ion & Laser Beam Technology	G-ED, Univ. of Calif.	Berkeley, Calif.	May 9-11	145	No	
Packaging Industry Tech. Conference	G-IGA	New York, N.Y.	May 9-11	128	No	
Region 6 Conference	Region 6	Albuquerque, New Mexico	May 9-11	750	Yes	
Aerospace Electronic Conference (NAECON)	G-AES, Dayton Section	Dayton, Ohio	May 15-17	1050	Yes	
Power Industry Computer Application Conf. (PICA)	G-P	Pittsburgh, Penna.	May 15-17	400	Yes	
Appliance Technical Conf.	G-IGA	Chicago, Ill.	May 16-17	401	No	
Nat'l Telemetering Conf.	IEEE, AIAA, ISA	San Francisco, Calif.	May 16-18	850	Yes	
Cement Industry Technical Conference	G-IGA	Albany, N.Y.	May 16-18	471	No	
Midwest Symposium on Circuit Theory	G-CT, Purdue University	Lafayette, Ind.	May 18-19	138	No	
Ind. & Commercial Power Systems Tech. Conference	G-IGA, (I & CP Sys.) Cleveland Section	Cleveland, Ohio	May 22-25	390	No	
Frequency Generation & Control for Radio Systems	U.K. & Rep. of Ireland Section, IEE	London, Eng.	May 22-24	259	No	
Joint Canada-USA URSI Meeting	URSI-IEEE	Ottawa, Ontario, Canada	May 23-26	611	No	
Southeastern Symp. on Electromagnetic Compatibility	Huntsville Section	Huntsville, Ala.	May 24-25	127	Yes	
Congress of Canadian Engrg.	Canadian Region, 10 Other Societies	Montreal, Can.	May 29 - June 2	1186	No	
Symp. on Manufacture of Integrated Circuits	G-IECI	New York, N.Y.	June 5	200	No	

<u>Name of Meeting</u>	<u>Sponsors</u>	<u>Place</u>	<u>Date</u>	<u>Paid Registration</u>	<u>Exhibits</u>	<u>Additional Exhibit Attendance</u>
Conf. on Laser Engrg. & Applications	G-ED, G-MTT	Washington, D.C.	June 6-9	867	Yes	
Chicago Spring Conf. on Broadcast & TV Receivers	G-BTR, Chicago Section	Des Plaines, Illinois	June 12-13	1341	Yes	
Int'l Communications Conference	G-ComTech, Twin Cities Sec.	Minneapolis, Minn.	June 12-14	918	Yes	
Microelectronics Symp.	St. Louis Sect.	St. Louis, (Clayton) Mo.	June 19-21	173	No	
San Diego Biomedical Engrg. Symposium	San Diego Sect. & Simulation Council	San Diego, Cal.	June 19-21	147	Yes	
Joint Automatic Control Conference	G-AC, AACC	Phila., Penna.	June 28-30	675	No	
Summer Power Meeting	G-P	Portland, Ore.	July 9-14	1200	No	
Nuclear & Space Radiation Effects Conference	G-NS	Columbus, Ohio	July 10-14	292	No	
Electromagnetic Compatibility Symposium	G-EMC	Washington, D.C.	July 18-20	785	Yes	
Intersociety Energy Conversion Engrg. Conference	IEEE, ASME, AICHE, ANS SAE, AIAA	Miami Beach, Florida	Aug. 13-17	650	No	
Western Electronic Show & Convention (WESCON)	Reg. 6, Groups, WEMA	San Francisco, Calif.	Aug. 22-25	35792	Yes	9498
Solid State Devices Conf.	U.K. & Rep. of Ireland Sect, Inst. of Phys. & Physical Soc., IEE, IERE	Manchester, England	Sept. 5-8	100	Yes	
Computer Conference	G-C	Chicago, Ill.	Sept. 6-8	470	No	
Int'l Symposium on Information Theory	G-IT	San Remo, Italy	Sept. 11-15	200	No	
Biennial Elec. Heating Technical Conference	G-IGA, S.E. Michigan Sect.	Detroit, Mich.	Sept. 13-14	208	No	
Int'l Broadcasting Conv. & Exhibition	U.K. & Rep. of Ire. Sect., Elec. Engrg. Assoc., Royal TV Soc.	London, Eng.	Sept. 20-22	403	Yes	
Automotive Conference	G-V, S.E. Mich. Section	Detroit, Mich.	Sept. 21-22	275	Yes	
Microelectronic Applications Symposium	L.I. Section, G-AES	Garden City, Long Island	Sept. 21-22	173	No	
Broadcast Symposium	G-B	Washington, D.C.	Sept. 21-23	275	No	
Joint Power Generation Conference	G-P, ASME	Detroit, Mich.	Sept. 24-28	450	No	
Int'l Elec. Conf. & Exposition of the Canadian Region	Canadian Reg. Toronto Sect.	Toronto, Ont., Canada	Sept. 25-27	11391	Yes	
Conf. on Magnetics Materials & Their Applications	IEE, U.K. & Rep. of Ire. Sect., Inst. of Phys. & Phys. Soc.	London, Eng.	Sept. 26-28	100	No	

<u>Name of Meeting</u>	<u>Sponsors</u>	<u>Place</u>	<u>Date</u>	<u>Paid Registration</u>	<u>Exhibits</u>	<u>Additional Exhibit Attendance</u>
Petroleum Ind. Tech. Conf.	G-IGA	Phila., Penna.	Oct. 2-4	300	No	
IGA Group Annual Meeting	G-IGA, Pitts- burgh Section	Pittsburgh, Pa.	Oct. 2-5	812	No	
Allerton Conf. on Circuit & System Theory	G-CT, Univ. of Illinois	Monticello, Ill.	Oct. 4-6	125	No	
Ultrasonics Symposium	G-SU	Vancouver, B.C. Canada	Oct. 4-6	310	No	
Joint Engrg. Management Conference	IEEE, 7 other Societies	San Francisco, California	Oct. 9-10	314	No	
Machine Tools Tech. Conf.	G-IGA, Cleve- land Section	Cleveland, Ohio	Oct. 9-11	340	No	
System Science & Cyber- netics Conference	G-SSC	Boston, Mass.	Oct. 11-13	232	No	
Electrical Insulation Conf.	G-EI, NEMA	Chicago, Ill.	Oct. 15-19	1200	Yes	
Eastern Conv. on Aerospace & Elec. Sys. (EASTCON)	G-AES	Washington, D.C.	Oct. 16-18	700	Yes	
Fall URSI-IEEE Meeting	URSI-IEEE	Ann Arbor, Mich.	Oct. 16-18	365	No	
Joint Materials Handling Conference	G-IGA, Mil- waukee Sect., ASME	Milwaukee, Wisc.	Oct. 16-18	195	No	
Int'l Symp. on Antennas & Propagation	G-AP	Ann Arbor, Mich.	Oct. 17-19	375	No	
Int'l Electron Devices Meeting	G-ED	Washington, D.C.	Oct. 18-20	1350	No	
Switching & Automata Theory Symposium	G-C, Univ. of Texas	Austin, Texas	Oct. 18-20	176	No	
Nat'l Electronics Conference	Region 4, Groups, et al	Chicago, Ill.	Oct. 23-25	19000	Yes	
Consumer Electronics Conf.	G-AE, G-BTR, G-ED	Chicago, Ill.	Oct. 23-24	100	No	
Adaptive Processes Symp.	G-AC, G-IT, G-SSC	Chicago, Ill.	Oct. 23-25	100	No	
Nuclear Science Symp.	G-NS	Los Angeles, California	Oct. 31 - Nov. 2	375	Yes	
Northeast Elec. Research & Engrg. Meeting (NEREM)	New England Sections	Boston, Mass.	Nov. 1-3	17500	Yes	4500
Asilomar Conf. on Circuits & Systems	U.S. Naval P. School, Univ. of Santa Clara, G-CT, G-AC, San Fran. Chap.	Pacific Grove, California	Nov. 1-3	175	No	
Fall Product Assurance Conference	Met. N.Y. Sections et al	New York, N.Y.	Nov. 2-3	475	Yes	100
Reliability Physics Symp.	G-ED, G-R	Los Angeles, California	Nov. 6-8	400	No	
Speech Communication & Processing Conference	G-AE, AFCRL	Cambridge, Mass.	Nov. 6-8	135	No	
Affiliation of N.C. Sections Symposium	Affil. of N.C. Sections	Greensboro, N. Carolina	Nov. 8-9	400	Yes	

<u>Name of Meeting</u>	<u>Sponsors</u>	<u>Place</u>	<u>Date</u>	<u>Paid Registration</u>	<u>Exhibits</u>	<u>Additional Exhibit Attendance</u>
Western Conference on Broadcasting	G-B	Los Angeles, California	Nov. 9-10	200	No	
Engineering in Medicine & Biology Conference	G-EMB, JCEMB	Boston, Mass.	Nov. 13-16	1052	Yes	
Fall Joint Computer Conference	G-C, AFIPS	Anaheim, Calif.	Nov. 14-16	6000	Yes	7100
Vehicular Conference	G-VT	New York, N. Y.	Dec. 5-8	425	Yes	

SECTION G

Table 2 - IEEE INTERNATIONAL CONVENTION STATISTICS

The Convention is internationally recognized as one of the largest Conventions of its kind in the world. An exhibition became part of the Annual Convention activities in 1930. Convention activities, from the first Convention held in 1926 through 1967, are indicated in the comparison figures listed below.

Date	Year	Attendance	Firms Represented	Exhibits	Sq. Ft. Occupied	Papers Presented	Location	
January	18-19	1926	*	0	0	6	New York, N. Y.	
January	10-12	1927	425**	0	0	5	New York, N. Y.	
January	9-11	1928	800	0	0	9	New York, N. Y.	
May	13-15	1929	555	0	0	37	Washington, D. C.	
August	18-21	1930	575	*	20**	23	Toronto, Canada	
June	4-6	1931	400	*	50	19	Chicago, Illinois	
April	7-9	1932	461	*	25**	23	Pittsburgh, Pa.	
June	26-28	1933	487	*	35	24	Chicago, Illinois	
May	28-30	1934	940	*	56	32	Philadelphia, Pa.	
July	1-3	1935	586	*	34	21	Detroit, Michigan	
May	11-13	1936	360	*	40	19	Cleveland, Ohio	
May	10-12	1937	1,189	*	37	30	New York, N. Y.	
May	15-17	1938	1,866	*	29	49	New York, N. Y.	
September	20-23	1939	1,668	*	34	26	New York, N. Y.	
June	27-29	1940	1,071	*	35**	44	Boston, Mass.	
January	9-11	1941	1,310	*	30**	28	New York, N. Y.	
June	23-25	1941	353	0	0	33	Detroit, Michigan	
January	12-14	1942	1,790	*	30**	25	New York, N. Y.	
June	(29-	1942	256	0	0	23	Cleveland, Ohio	
July	1)							
January	28	1943	1,750	0	0	11	New York, N. Y.	
January	28-29	1944	1,704	0	0	22	New York, N. Y.	
January	24-27	1945	3,000	*	39	43	New York, N. Y.	
January	23-26	1946	7,200	1,571	135	13,220'***	88	New York, N. Y.
March	3-6	1947	12,013	2,845	177	20,830'	118	New York, N. Y.
March	22-25	1948	14,459	3,059	180	25,900'	130	New York, N. Y.
March	7-10	1949	15,710	3,427	225	30,700'	144	New York, N. Y.
March	6-9	1950	17,689	4,088	253	33,600'	163	New York, N. Y.
March	19-22	1951	22,919	5,082	277	45,672'	198	New York, N. Y.
March	3-6	1952	28,673	6,306	365	54,246'	211	New York, N. Y.
March	23-26	1953	35,642	7,493	412	63,033'	214	New York, N. Y.
March	22-25	1954	39,302	8,799	605	87,192'	242	New York, N. Y.
March	21-24	1955	42,133	9,504	704	95,782'	248	New York, N. Y.
March	19-22	1956	41,017***	8,851	716	98,684'	277	New York, N. Y.
March	18-21	1957	53,811	11,757	840	105,240'	284	New York, N. Y.
March	24-27	1958	55,811	12,555	950	110,828'	285	New York, N. Y.
March	23-26	1959	60,050	13,509	1,200	114,117'	263	New York, N. Y.
March	21-24	1960	69,760	15,889	1,200	113,597'	261	New York, N. Y.
March	20-23	1961	67,451	15,170	1,237	113,711'	274	New York, N. Y.
March	26-29	1962	74,734	16,246	1,307	116,412'	275	New York, N. Y.
March	25-28	1963	71,337	15,507	970	116,192'	251	New York, N. Y.
March	23-26	1964	66,541	14,967	966	122,336'	307	New York, N. Y.
March	22-26	1965	58,462	13,150	884	116,448'	359	New York, N. Y.
March	21-25	1966	63,650	14,270	731	115,410'	305	New York, N. Y.
March	20-23	1967	59,196	12,731	722	121,790	320	New York, N. Y.

* Figures not available

** Estimated

*** Reduction in attendance due to blizzard

SECTION G

TABLE 3 - SECTION, SUBSECTION, GROUP CHAPTER MEETINGS AND CONFERENCES

S - Section Meetings
 SS - Subsection Meetings
 G - Group Chapter Meetings
 STC - Section Technical Conferences

Section and Subsection	Meetings				Section and Subsection	Meetings			
	S	SS	G	STC		S	SS	G	STC
<u>Region 1</u>					<u>Region 2 - cont'd.</u>				
Berkshire	9		1		Erie	5			
Binghamton			18		Johnstown	13			
Boston			97		Lehigh Valley	4		9	
Lynn		6			Lima	8		2	
Merrimack Valley		7			North Central Ohio	6			
Buffalo	11		26		Ohio Valley	8			
Connecticut	8		24		(2) Scioto				
Fairfield County		5			Philadelphia	4		89	
New London		9			Pittsburgh	5		10	
Elmira-Corning	11				Upper Monongahela		4		
Ithaca	4				Sharon	8		3	
Long Island	1		25		Southern New Jersey	8			
Maine	7		6		Susquehanna	7			
Mid-Hudson	6		3		Washington	9		88	
Catskill		4			West Virginia	6			
Mohawk Valley	2		12						
St. Lawrence Intn'l		16				174	28	317	2
New Hampshire	14		4		<u>Region 3</u>				
New Jersey Coast	1		10		Alabama	9		12	
New York			299		Atlanta	8		8	1
Westchester		1			Macon-Warner Robins		8		
North Jersey	7		22		Rome		6		
Princeton	4		2		Baton Rouge	9			
P. ovidence	8				Lafayette		8		
Southeastern Mass.		1			Canaveral	6		16	
Rochester	3		15		Central North Carolina	6			
Schenectady	16		21		Central Virginia	6			
Adirondack		9			Charlotte	8		9	1
Springfield	8				Chattanooga	6		7	
Syracuse	5		16		Daytona	7		3	
Vermont	10				Eastern North Carolina	7			1
Worcester County	7				East Tennessee	8		6	
	142	58	601		Upper East Tennessee		6		
<u>Region 2</u>					Evansville-Owensboro	12			
Akron	9		9		Paducah		6		
(1) Allegheny Mountain	11			1	Florida West Coast	8		14	
Baltimore	9		29		Fort Walton	5			
Annapolis		6			Gainesville	7			
Eastern Shore		6			Hampton Roads	8			
Canton	5				Huntsville	6		7	
Central Pennsylvania	8				Muscle Shoals		1		
Cincinnati	18		7		Jacksonville	9			
Cleveland	6		33	1	Lexington	8			
Columbus	4		17		Louisville	10			1
Chillicothe					Memphis	10		9	
Zanesville		12			Jackson		7		
Dayton	3		16		Miami	8		2	
Delaware Bay	10		5		Middle Tennessee	8		6	
					Mississippi	4			
					Northeast Mississippi		5		

Section and Subsection	Meetings			
	S	SS	G	STC

Region 3 - cont'd.

Mobile	10			
Nashville	9			
New Orleans	9		11	
North Carolina Affiliation of Sections			2	
Oak Ridge	9			
Orlando	9		24	
Palm Beach				
Panama City	7			
Pensacola	9			
Richmond	5			
Savannah	9			
South Carolina	2		2	
Central Savannah River		9		
Charleston		9		
Columbia		7		
Piedmont		5		
Virginia Mountain	5			
Western North Carolina	8			
Winston-Salem	8		2	1
	<u>282</u>	<u>77</u>	<u>140</u>	<u>5</u>

Region 4

Arrowhead	8			
Cedar Rapids	7			
Central Illinois	9		4	
Central Indiana	8		5	
Bloomington		2		
Central Iowa	9			
Chicago			56	
Calumet		8		
Fox Valley		5		
Fort Wayne	9			
Illinois Valley	14			
Iowa-Illinois	8			
Burlington		7		
Madison	6			
Milwaukee	4		15	
Racine-Kenosha		4		
Nebraska	9		10	1
Northeast Michigan	11			
Northeastern Wisconsin	11			
Rock River Valley	10			
Siouxland	11			
South Bend	10			
Southeastern Michigan	3		33	
Southern Minnesota	6			
Toledo	7		2	
Twin Cities	5		31	1
Red River Valley		9		
West Michigan	11			
	<u>176</u>	<u>35</u>	<u>156</u>	<u>2</u>

Region 5

Arkansas	10			
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Section and Subsection	Meetings			
	S	SS	G	STC

Region 5 - cont'd.

Beaumont	5		8	
Lake Charles		6		
Central Texas	9		5	
Corpus Christi	7		1	
Victoria-Port Lavaca		9		
Dallas	6		27	
(3) Waco				
Denver	8		20	
Black Hills				
Pikes Peak		8		
El Paso	10			
Fort Worth	6		2	
Houston	9		24	
Freeport		6		
Kansas City	9			
Oklahoma City	8		4	
Ozark	10			
Panhandle	6			
Permian Basin	9			
St. Louis	6		22	
Shreveport	10		3	
Monroe		10		
South Plains	7			
Tulsa	9		4	
West Central Texas	7			
Wichita	10			
	<u>161</u>	<u>39</u>	<u>120</u>	

Region 6

Alamogordo-Holloman	8			
Alaska	10			
Albuquerque	5		5	1
Los Alamos-Santa Fe		5		
Antelope Valley	6			
Boise	10			
Buenaventura	9		10	
China Lake	3			
Foothill	10		11	
Fort Huachuca	9			
Hawaii	9			
Idaho	8		1	
Las Vegas	7			
Los Angeles Council	1		131	
Met. Los Angeles	6			
Montana				
Billings		7		
Butte		5		
Helena		8		
Orange County	7		21	
Phoenix	7		21	
Portland	9		11	1
Eugene		5		
Richland	8			
Walla Walla		5		
Sacramento	9		9	1
Reno		9		
San Joaquin		5		
Shasta		5		

Section and Subsection	Meetings			
	S	SS	G	STC
<u>Region 6 - cont'd.</u>				
San Diego	8		17	
San Fernando Valley	11			
San Francisco	1		95	
East Bay		5		
(4) Fresno				
Santa Clara Valley		6		
San Gabriel Valley	7			
Santa Barbara	10			
Santa Monica Bay	7			
Seattle	10		29	
Tacoma				
South Bay Harbor	8			
Spokane	8		2	
Tucson	9		3	
Utah	7		4	
Vandenberg	8		1	
Wenatachee	5			
	<u>240</u>	<u>65</u>	<u>371</u>	<u>3</u>

Region 7

Bay of Quinte	5		5	
Canadian Atlantic	6			1
Hamilton	10			
Kitchener-Waterloo	7			
Guelph		6		
London	9			
Montreal			15	
Niagara International	17			
Northern Alberta	4			
Ottawa	7		7	
Quebec				
Regina	8			1
St. Maurice	6			
Southern Alberta	8			
Toronto	5		6	
Vancouver	10		11	1
Victoria	10			
Winnipeg	10			
	<u>122</u>	<u>6</u>	<u>44</u>	<u>3</u>

Section and Subsection	Meetings			
	S	SS	G	STC
<u>Region 8</u>				
Benelux				
Egypt		12		
France		4		2
(5) Germany (West)				1
Israel				
Middle & South Italy				
North Italy				
Norway		6		
Sweden		5		
(6) Switzerland		8		1
United Kingdom & Republic of Ireland		2		
		<u>37</u>		<u>2</u> <u>2</u>

Region 9

Buenos Aires		3		
Chile				
Colombia				
Mexico		12		
(7) Peru				
Puerto Rico & Virgin Islands		6		
Rio de Janeiro				
Sao Paulo		9		
(8) Venezuelan				
		<u>30</u>		

Region 10

Kanpur (India)				
Tokyo		9		
		<u>9</u>		

TOTALS

Section	1,373
Subsection	308
Group Chapter	1,751
Section Technical Conference	<u>17</u>

GRAND TOTAL 3,449

- (1) Name changed from Emporium-Ridgway Section 9/20/67
- (2) Scioto Subsection dissolved 5/31/67
- (3) Waco Subsection dissolved 5/31/67
- (4) Fresno Subsection dissolved 7/29/66
- (5) Name changed from West Germany Section 9/20/67
- (6) Name changed from Geneva Section 9/20/67
- (7) New Section established 11/14/67
- (8) New Section established 3/18/67

SECTION G

TABLE 3 - SECTION, SUBSECTION, GROUP CHAPTER MEETINGS AND CONFERENCES

Region Number	1	2	3	4	5	6	7	8	9	10	Other	Total
<u>1967</u>												
Sections	142	174	282	176	161	240	122	37	30	9		1,373*
Subsections	58	28	77	35	39	65	6		-	-		308*
Group Chapters	601	317	140	156	120	371	44	2	-	-		1,751*
Section Technical Conference		2	5	2		3	3	2				17
Student Branches	<u>346</u>	<u>210</u>	<u>197</u>	<u>210</u>	<u>212</u>	<u>261</u>	<u>85</u>	<u>5</u>	<u>7</u>	<u>-</u>		<u>1,533**</u>
Total Meetings	1,147	731	701	579	532	940	260	46	37	9		4,982
<u>1966</u>												
Sections	158	196	313	184	168	234	104	33	26	-		1,416
Subsections	52	34	78	45	53	74	6	-	-	-		342
Group Chapters	355	323	127	134	107	398	38	-	1	-		1,483
Section Technical Conference	1	1	2	-	-	1	1	3	2	-		11
Technical Discussion Group	78	19	4	11	-	10	9	-	-	-		131
Student Branches	<u>235</u>	<u>205</u>	<u>139</u>	<u>230</u>	<u>195</u>	<u>201</u>	<u>97</u>	<u>-</u>	<u>6</u>	<u>-</u>		<u>1,308</u>
Total Meetings	879	778	663	604	523	918	255	36	35	-		4,691
<u>1965</u>												
Sections	140	170	269	150	123	198	102	57	45			1,254
Subsections	49	31	100	36	56	44	4	-	-			320
Group Chapters	240	227	82	96	65	165	14	-	-			889
Technical Discussion Group	54	57	61	19	9	12	21	-	-			233
Student Branches	<u>290</u>	<u>220</u>	<u>167</u>	<u>254</u>	<u>190</u>	<u>243</u>	<u>84</u>	<u>32</u>	<u>10</u>			<u>1,490</u>
Total Meetings	773	705	679	555	443	662	225	89	55			4,186
<u>1964</u>												
Sections	177	199	295	206	163	238	120	51	33			1,482
Subsections	59	47	102	44	54	81	5	-	-			392
Group Chapters	236	270	63	162	50	330	14	-	-			1,125
Technical Discussion Group	140	72	57	67	38	38	22	-	-			434
Student Branches	<u>351</u>	<u>252</u>	<u>197</u>	<u>238</u>	<u>200</u>	<u>272</u>	<u>94</u>	<u>1</u>	<u>12</u>			<u>1,617</u>
Total Meetings	963	840	714	717	505	959	255	52	45			5,050

*As reported to Headquarters through March 1, 1968.

**As reported to Headquarters through December 31, 1967.

I. PUBLICATIONS AND INFORMATION SERVICES

1. TECHNICAL PUBLICATIONS

GENERAL

The year 1967 saw the continued growth in the scope of the publication activities of the Institute and increased attention given to evaluating the quality and effectiveness of the resulting services. It was a year that also saw Information Services established as a separate department of the Institute staff. Its activities are therefore covered separately in the section that follows.

During the year, the Editorial Department processed 3,526 papers and 1,374 correspondence items for printing in IEEE publications, excluding the translated journals, giving a total output of 29,707 editorial pages, a slight increase over the preceding year.

Considerable effort was devoted to evaluating the quality of the publications of the IEEE. A task force of the Publications Board was formed to review the current output of the Group TRANSACTIONS and JOURNALS to provide data that would assist the Technical Activities Board and the Publications Board in determining how best to use Institute general funds in support of Group publications in 1968. It is expected that the information obtained from this review will also be helpful to the Groups in strengthening their publications. The Institute also arranged for an outside firm to conduct an extensive personal interview and mail survey among members regarding their attitudes and technical needs, an important part of which concerned their views on SPECTRUM, the PROCEEDINGS and Group publications. The results of the survey will be an important aid to the Publications Board in developing improved publication programs in 1968.

Considerable attention was also given by the Publications Board to examining the publication needs of student members and evaluating the respective roles of the STUDENT JOURNAL and SPECTRUM in meeting these needs. As a result of this study, which was conducted over a period of two years, the Board of Directors decided that starting in the fall of 1967 all students should be given the choice of receiving either the STUDENT JOURNAL or SPECTRUM as part of their dues.

Following a study of long-range Group publication finances by a joint committee of the Publications Board and the Technical Activities Board, the Board of Directors agreed to permit the adoption of voluntary page charges by those publications that desire them, subject in each instance to the approval of the Publications Board and the Technical Activities Board. Under the page charge system, which has been adopted by a growing number of scientific and engineering society journals, the author's company is asked to pay a charge on a purely voluntary basis to help support the cost of publishing the results of their research and development work. The voluntary page charge was established at \$50 per page for 1968. Five publications have adopted page charges for the coming year: the TRANSACTIONS on Antennas and Propagation, Information Theory, Aerospace and Electronic Systems, Electron Devices and the JOURNAL of Quantum Electronics.

IEEE SPECTRUM

The year 1967 marked the fourth year of publication of this core publication of the Institute. C. Chapin Cutler of Bell Telephone Laboratories continued as Editor, and he was assisted throughout the year by an Editorial

Board of distinguished engineers.

A total of 86 articles were published during the year. Most of these were invited or contributed, but 8 were written by members of the editorial staff. In addition to 27 letters published in "IEEE Forum," 58 letters were published in "Technical Correspondence."

The total pages published in SPECTRUM during 1967 numbered 2,052. Of these, 1,308 were devoted to technical and editorial material, 579 to paid advertising and 165 to related filler.

Two new assistant editors, Harold L. Hoffman and Marcelino Eleccion, were added to the SPECTRUM staff in 1967.

PROCEEDINGS OF THE IEEE

As in 1966, the PROCEEDINGS was guided throughout 1967 by its appointed Editor, M. E. Van Valkenburg of Princeton University, and its Editorial Board. Members of the latter continued to play an active day-to-day role in the editorial process by selecting appropriate reviewers for all contributed papers. This procedure is used to assure that papers are reviewed by the most competent people available.

Nine invited papers reviewing progress in areas of wide general interest were published during the year. These were procured with the assistance of the Editorial Board and were written by people at the forefront of research in the areas covered. Because these invited papers have been so well received, the groundwork was laid for substantially increasing the number to be published in 1968.

As usual, the highlights of the PROCEEDINGS year were the special issues, each of which was devoted to a single subject area of major interest. Four were published, the subjects covered being redundancy reduction (March), radio measurement methods and standards (June), high-power semiconductor devices (August), and computer-aided design (November).

"PROCEEDINGS Letters" continued as a widely accepted vehicle for quickly and briefly announcing new research results. To increase the usefulness of this section, improvements were made in the review procedures to assure a fast but adequate review of letters submitted for publication. During the year, 618 pages were devoted to the printing of 573 letters. As a comparison 592 letters, taking up 642 pages, were published in 1966.

The year saw the appearance of 2,601 pages in the PROCEEDINGS, of which 2,289 were editorial pages, 195 were paid advertising, and 117 were related filler. The total number of papers published was 158, of which 107 appeared in special issues.

GROUP PUBLICATIONS

The Group publications again encompassed the major share of the IEEE publication output. A total of 164 issues constituting 17,528 pages were published. This represents an increase of nearly four per cent over the 16,852 pages published in Group publications in 1966.

No new titles were added during the year, so the number of TRANSACTIONS published remained at 31 and the number of JOURNALS at 2. In 1967, 4 Group publications were issued monthly, 7 bimonthly, 15 quarterly and 7 appeared aperiodically.

GROUP PUBLICATIONS (continued)

With its September 1967 issue, COMPUTER GROUP NEWS became the first Group publication to carry advertising. This was made possible by a policy adopted by the IEEE Board of Directors that allowed advertising to be carried in a publication if the Group requested it and if a study indicated that an advertising market existed. The sale of advertising is handled by the IEEE Advertising Manager.

With the assistance of the Staff Director of Publishing Services, those Groups on a regular publication schedule began changing from third class to second class mailing at the end of the year. The change is expected to reduce postage expenses and speed delivery through the mails.

IEEE STUDENT JOURNAL

The student membership was served during 1967 through this bimonthly student publication. Forty signed articles as well as other technical material and career information were included in 312 pages. During the year, editing and production of the STUDENT JOURNAL were brought into IEEE Headquarters and Alexander McKenzie took responsibility for staff support as Managing Editor. As in previous years, an extra 20,000 copies of the September issue were sent to IEEE Counselors in colleges and technical institutes for distribution to potential Student members.

At the beginning of the year, T. A. Hunter retired as Editor, a position he had held since the STUDENT JOURNAL began publication in 1954. In recognition of this service and the key part he played in founding this student publication, Mr. Hunter was presented with a plaque by the Board of Directors and was given the honorary title of Founding Editor of the IEEE STUDENT JOURNAL.

TRANSLATED JOURNALS

The Institute continued its program of translating and publishing papers from 4 Russian and 2 Japanese technical journals with the support of the National Science Foundation. The year 1967 saw the appearance of 4,664 pages translated from the Russian and 2,829 translated from the Japanese. Advance tables of contents of issues to be translated were carried each month in SPECTRUM, as were signed critical reviews of selected papers which had been published in English.

SPECIAL PUBLICATIONS AND PREPRINTS

The papers presented at the 1967 International Convention were published in summary form in the CONVENTION DIGEST and in full in a 14-Part, 2,216-page CONVENTION RECORD. In addition, 10 special Conference Records were published comprising 139 papers and 1,640 pages. Finally, a total of 282 papers, amounting to 3,840 pages, were individually reprinted by photo-offset means for 4 meetings.

2. INFORMATION SERVICES

The new Information Services Department began its work during 1967, with much activity both external and internal to the Institute.

The major external activity was the negotiation of an agreement with the Institution of Electrical Engineers (London) to become joint publisher of Electrical and Electronics Abstracts (also known as Science Abstracts - Series B). The agreement between IEEE and IEE covers sales - with IEEE the agent for the Americas - and Editorial participation, with IEEE agreeing to supply the indexed abstracts of its own literature, and possibly some specialized literature more readily available in the U. S. A. The agreement is expected to return a surplus to the IEEE which can be used for further develop-

ment of its Information Services.

An important part of the work with the IEE is in the joint development of improved indexing vocabularies for the electrical and electronics field.

External activity by the new department also included extensive interaction with the Engineering Index, looking toward close cooperation in developing information products for the American market, and in the development of indexing vocabulary.

The department also participated on panels, boards, on committees of the EJC, Tripartite Committee, Engineering Societies Library, U. S. A. Standards Institute, SATCOM (Committee on Scientific and Technical Communication of the National Academy of Sciences/National Academy of Engineering), and ISTIM (President's ad hoc Committee on Interchange of Scientific and Technical Information in Machine Language). In addition, meetings were held with Information Services staff personnel of several scientific and engineering societies.

Activities internal to the Institute have centered on modernization and extension of the year-end indexing, as a first step toward development of a human-and-machine compatible indexing method. The extension planned was in usability and quality, and in use of modern computer-based techniques. Unfortunately, the extension that happened was also an extension in time, because of problems in obtaining satisfactory performance from a contractor. Plans for the 1968 indexes are for the same indexing approach, but earlier schedule, and better control of the mechanized processes through greater capability within the staff of the Institute.

The creation of a master bibliographic file of IEEE 1967 published literature was attempted, and ran into delays. It is planned for completion in 1968, along with the master file of 1968 literature.

A major feature of 1967 IEEE indexing was author participation, and a majority of IEEE 1967 authors filled out author-indexing worksheets that proved to be of substantial value in raising the quality of 1967 indexing. The policy of using author participation will be extended and enhanced in 1968.

Other internal activity was largely concerned with planning for a number of projects to be carried out in the near future, such as the creation of microform editions of IEEE literature, and the more effective and perhaps automatic dissemination of reprints.

3. REGIONAL PUBLICATIONS

The year 1967 saw the inauguration of the Institute's first two Regional publications and the laying of plans for a third.

As further evidence of its non-national character, the Institute's first non-English technical publication was inaugurated with the appearance of IEEE ELECTROLATINA. Published quarterly in Mexico City by the Latin American Region (Region 9), the new publication contains technical articles and news in Spanish and Portuguese, carries advertising, and is distributed free to all members residing in Region 9, numbering 1,700.

In December, Region 8, serving 4,000 members in Europe, the Middle East and North Africa, began publication of a newsletter containing Institute announcements of particular interest to the Region and also Regional, Section and Student news. It is planned to publish the newsletter two or three times a year.

REGIONAL PUBLICATIONS (continued)

Meanwhile, consideration is being given by Region 10 to the possibility of starting a newsletter in 1968 for members in Asia and Africa.

4. SECTION PUBLICATIONS

A major activity of many Sections is the publication of a monthly Bulletin for the announcement of the local activities. Sixty-nine IEEE Sections now issuing monthly publications are listed below:

<u>Section</u>	<u>Publication</u>	<u>Section</u>	<u>Publication</u>
Akron	Akron Section Bulletin	Mohawk Valley	Echoes
Albuquerque	The Blast	Montreal	Current PHASE Courante
Allegheny Mountain	IEEE News Letter	New Jersey Coast	The Scanner
Atlanta	The Atlanta Circuit	New York	The Monitor
Binghamton	Pulse	North Carolina Affiliation	
Boston	The Reflector	of Sections:	IEEE Bulletin
Buenos Aires	Boletin	Central North Carolina	
Canaveral	Impulse	Charlotte	
Cedar Rapids	Corona	Eastern North Carolina	
Central Indiana	The Reporter	Western North Carolina	
Central Pennsylvania	Newsletter	Winston-Salem	
Central Texas	The Analog	North Jersey	The IEEE Newsletter
Chicago	IEEE Scanfax	Orlando	Orlando Section Notes
Cincinnati	IEEE Cincinnati Section News	Ottawa	Ottawa Section Bulletin
Cleveland	Cleveland Section News	Philadelphia	Almanack
Connecticut	The CONNector	Pittsburgh	IEEE Bulletin
Dallas	Direction	Portland	The BEEEP
Dayton	Wave Guide Newsletter	Princeton	The P.S.
Delaware Bay	Newsletter	Saint Louis	The Mighty MHO
Evansville-Owensboro	The Transmitter	San Diego	San Diego Section Bulletin
Florida West Coast	Suncoast Signal	San Francisco	IEEE Grid
Fort Walton	The Courier	Schenectady	IEEE News Bulletin
Fort Wayne	The Announcer	Seattle	Data Link
Houston	The Scope	South Bend	The Nucleus
Huntsville	The Live Wire	South Carolina	Southern Corona
Lehigh Valley	Newsletter	Southeastern Michigan	IEEE News
Long Island	The Pulse	Syracuse	Syracuse Scanner
Los Angeles Council:	IEEE Bulletin	Tokyo	Denshi Tokyo
Antelope Valley		Twin Cities	Radiator
Buenaventura		United Kingdom and Republic of Ireland	Newsletter
China Lake		Washington	The Washington Bulletin
Foothill		Worcester County	Newsletter
Met. Los Angeles			
Orange County			
San Fernando Valley			
San Gabriel Valley			
Santa Barbara			
Santa Monica Bay			
South Bay Harbor			
Vandenberg			

5. ELECTRICAL ENGINEERING

1967 marked the year that this "management newsletter on IEEE operations - to encourage communication among Committees, Groups, Sections and Staff" moved from a quarterly publication to a bi-monthly. In addition, under the able guidance and leadership of its new editor, Dr. Ivan S. Coggeshall, a number of supplements were included with each issue. Included in the supplements were: Speakers Listing; Guidelines for Arrangements for Invited Visitors to the United States from the Soviet Union and Eastern European Nations; Bylaw Revisions; Policy Statements; and a series on committee common lore written by the Editor. The total number of Newsletter pages published in 1967 was 42. The total number of pages of supplements was 225.

II. TECHNICAL ACTIVITIES1. Technical Activities Board, Groups, and General Committees.

(1) In 1967, all categories of technical activities continued at higher levels than in 1966. The TRANSACTIONS and Journals published a total of 17,528 pages in 164 issues, compared to 16,830 pages in 1965. Detailed tabulations appear in Section F. The conferences, symposia, and seminars or workshops sponsored or co-sponsored by Groups, Regions, and Sections offered greater variety and coverage than in any previous year. This reflects the rapid advances that are being made on many technical fronts of interest to IEEE. The Standards Committee acted on 33 new or revised standards. The IEEE dictionary was organized on a project basis, with the Editorial Department at IEEE Headquarters taking responsibility for publication. By the end of the year, over 20,000 entries had been submitted and processed for inclusion in the dictionary.

(2) The membership in IEEE Groups, which is an index to the technical activity of IEEE, increased in 1967, with a year-end total of 139,436, compared to 127,377 memberships at the end of 1966. These 1967 memberships were held by 76,310 individuals, which represents 48% of the IEEE members, compared to 42% a year ago. A study of detailed membership records for a few Groups in 1966 indicated not only a growth but also a significant rotation or turnover. For 1967, careful records were kept of Group membership renewals and new memberships. There were variations, of course, between Groups but in broad terms about one-quarter of all Group memberships were new. We have noticed that many individuals switch from one Group to another. A switch may represent a change in job assignment and technical interest. Or it may mean that the individual was seeking something and, not finding it in one Group, switched to another. This is a challenge that requires attention.

(3) Further steps were taken to clarify the financial picture for all technical activities, particularly the interaction between IEEE support and the resources of the individual Groups. As a partial solution for the problem of rising publication costs, the IEEE Board adopted a permissive policy on voluntary page charges. Four Transactions and one Journal will have page charges in 1968. Display advertisements are being published in the Computer News, the first such undertaking since adoption of a revised IEEE policy pertaining to Group publications. Group fees and conference registration schedules show upward trends to compensate for rising costs and broader requirements for financial support.

The Publications Board established a special task force to evaluate the Transactions and Journals, thus providing important information needed in the preparation of budgets for 1968. Strong IEEE support for publications at the top of the evaluation ratings is clearly indicated. At the other end of the scale, the rationale was less obvious; some Groups had little hope of significantly improving their publications unless extra help was offered.

(4) A significant change was made in the IEEE administrative structure, as reflected in the revision of the IEEE Bylaw 308 pertaining to the Technical Activities Board. The new arrangement parallels that of the IEEE Board and Executive Committee, with the TAB reporting to the Board and TAB Operating Committee reporting to the Executive Committee. In order to insure a close tie between the Groups and the TAB OpCom, a special provision was made in Bylaw 308.2 for a strong TAB voice in the selection of the members-at-large. Internal, administrative communications received attention and new or revised procedures were adopted to facilitate these communications; individual members of TAB OpCom and the TAB Finance Committee were assigned responsibilities for a few Groups, thereby encouraging studies of Group problems in depth.

2. Joint Technical Advisory Committee (JTAC), sponsored by the IEEE and the EIA (Electronic Industries Association), held five regular meetings during 1967. Five subcommittees have been active during the year.

Subcommittee 63.1 - Electromagnetic Compatibility - to undertake a study of the needed technical areas and to formulate objectives for dealing with this subject. A report is in the final stages of preparation and it will be the first time that

- frequency coordination and monitoring resources in the U. S. have been reported in a study;
- a system for determining spectrum usage information has been developed;
- there has been a detailed study on the antenna farm problem leading to classification and recommended procedures;
- a complete survey of all available data on man-made noise has been compiled; and
- the relationship between man's use and natural phenomena has been suggested as an area for better organized study.

Subcommittee 65.1 - Future Needs and Uses of the Spectrum: relative to the continuing nature of the aspects of this area of study, the scope, considered to be wide, was undefined. In conjunction with the Office of Telecommunications Management, the Subcommittee has conducted a survey to develop information on prospective future uses of the electromagnetic spectrum resulting from research now under way and being contemplated. A report on the combined survey will be made available when completed.

Subcommittee 66.1 - Maritime Mobile Communications: constituted to study the potential technical and economic advantages in reallocation of the maritime frequencies in the 50 kHz and 2MHz bands.

Subcommittee 66.2 - Testing Sharing of TV Channels by LMRS: to assist the FCC in the tests now being conducted by the Commission on the feasibility of sharing television channels by stations in the land mobile radio services.

Subcommittee 67.1 - Spectrum Utilization Aspects in the Use of Space Techniques: established in February 1967 to study spectrum utilization aspects of space techniques and issue a report that possibly could become a supplement to RADIO SPECTRUM UTILIZATION. This study was initiated in view of the changing conditions brought about by the enormous strides which have taken place in satellite communications.

III. EDUCATIONAL ACTIVITIES

During 1967 two concurrent general educational activities got under way. The first involved the continuing program of the Educational Committee which included: appointment of over 60 inspectors for the ECPD accreditation activities; development of criteria for assisting the Engineering Education and Accreditation Committee of ECPD in evaluating both electrical engineering curricula and engineering technology curricula; and development of programs in Continuing Education.

The second general educational activity involved the work of the ad hoc Committee on Educational Activities of the IEEE Executive Committee. The work of this committee culminated in a comprehensive report submitted to and accepted by the IEEE Executive Committee and Board of Directors and published in the November issue of SPECTRUM. There were numerous far-reaching recommendations made by this Committee - all or many of which will come into function as a result of the enactment of the following two recommendations:

1. IEEE establish an Educational Activities Board having a status comparable to the Publications Board or to TAB, the Chairman of the EAB to be a member of the Executive Committee.
2. The EAB be responsible for planning specific activities in continuing education, for monitoring ECPD accreditation activities and developing guidelines for our representatives on the ECPD accreditation committees, for developing IEEE relations with educational institutions, for making policy recommendations to the Board of Directors.

Activities of the Student Branches Committee during 1967. The Student Branches Committee held two meetings during 1967. The annual Vincent Bendix Award program was administered with grants to six Student Branches totalling \$2,284.50. The Committee conducted a special survey and made recommendations concerning actions which could be taken to activate Student membership at the Regional and Sectional level of IEEE. Under the sponsorship of the Student Branches Committee, the first Student Branch Counselors meeting was held at the 1967 IEEE International Convention. In addition, plans were completed for holding a four-day Student Branch Chairman Convocation at the 1968 International Convention. The IEEE Student Branch Manual was revised by an ad hoc committee of the Student Branches Committee and issued to all IEEE Student Branches.

IV. BOARD AND STANDING COMMITTEE ACTIVITIES

1. Admission and Advancement Committee.
During the twelve full-day meetings of this Committee in 1967, all held at IEEE Headquarters, 1,527 applications for admission and transfer to Member and Senior Member grades were reviewed, and action taken as follows:

	Senior Member	Member
Admissions approved	228	644
Admissions rejected	72	109
Transfers approved	304	98
Transfers rejected	48	24
	<u>652</u>	<u>875</u>

Following action taken by the Board of Directors, the number of references required was reduced to three for both Member and Senior Member applications. The application forms and reference forms were redesigned to incorporate these changes and to secure more pertinent and more responsive answers from references. Copies of the application are now forwarded routinely to each reference.

Seventeen Swedish and twenty-two French members were upgraded to Senior Member as a result of action taken by the respective Section Executive Committees under the upgrading procedures approved by the Executive Committee.

2. Awards Board. The major function of the Awards Board is to consider and approve recommendations which have been received from its Committees for candidates for IEEE Awards and to submit to the Board of Directors for final approval recommendations for recipients for the IEEE Awards. In 1967 recipients were recommended for the following:

Medal of Honor

Major Annual Awards:

Edison Medal
Founders Award
Lamme Medal
IEEE Education Medal

Field Awards:

Harry Diamond Memorial Prize Award
William M. Habirshaw Award
IEEE Award in International Communication
in honor of Hernand and Sosthenes Behn
Mervin J. Kelly Award
Morris E. Leeds Award
Morris N. Liebmann Memorial Prize Award
David Sarnoff Award
Vladimir K. Zworykin Award

Prize Paper Awards:

W. R. G. Baker Prize Award
Browder J. Thompson Memorial Prize Award
Institute Student Prize Award

Scholarship Awards:

Charles LeGeyt Fortescue Fellowship
Volta Scholarship

The Field Awards were presented to the recipients at special affairs held during meetings and conferences in Dallas, Boston, Pittsburgh, Chicago, San Francisco, and New York. The IEEE Medal of Honor, Major Annual Awards and Prize Paper Awards were presented at special functions held in New York during the International Convention.

In addition, the Awards Board recommended nominees for the National Medal of Science, which is the "Government's highest award for distinguished achievement in science, mathematics and engineering."

The IEEE participates in intersociety award activities and early in 1967 the Awards Board was assigned the responsibility of appointing IEEE Representatives to the following Intersociety Boards of Awards and Committees:

Alfred Noble Prize Committee (ASCE)
Hoover Medal Board of Award (ASME)
John Fritz Medal Board of Award (UET)
Sperry Board of Award (ASME)
Washington Award Commission (WSE)

Six new appointments were made to replace those Representatives whose terms expired and one Representative was reappointed.

During the year the Awards Board held three meetings; two in New York and one in Boston. At its last meeting the Awards Board proposed a change in Bylaw 305 regarding the administration of the Field Awards. The purpose of the revision was to simplify the method of operation and this was approved by the Board of Directors.

3. Educational Activities Board. (See Section H-III)
4. Fellow Committee. At the first meeting of the Committee in March, the general schedule of committee activities was reviewed and approved. During the period June - September, Committee members examined and scored 321 candidates for Fellow grade. At the second (and last) meeting in October, action was taken to select 125 candidates to recommend to the Board of Directors for elevation to Fellow grade. The accompanying citations were also developed at the same time.

Refinements continue to be made in the Fellow scoring procedures.

The "Call for Nominations" was expanded in 1967 to include more details and instructions considered helpful to sponsors of Fellow grade nominations.

A "Handbook for Fellow Grade Nominations" is now in preparation. With the approval of the Fellow Committee and the IEEE Executive Committee, copies will be furnished to all organizational units of the IEEE in 1968.

5. Finance Committee. In 1967 this Committee held five meetings. During all of these meetings it reviewed the trends and financial results of operations of IEEE and compared them with the predetermined plan as expressed in the 1967 budget.

The Committee selected FMR Investment Management Service, Inc. to be IEEE's investment counselor. In order to obtain the maximum benefits from the use of this outside counselor, discretionary investment powers were granted. The investment counselor currently informs the IEEE of all such transactions as they are implemented.

The Finance Committee approved the solicitation for a new computer which would be capable of performing the functions of IEEE's data processing center. The results of these bids were later forwarded to the Executive Committee who approved the selection of the new equipment, which is to be delivered in early 1969.

The results of the annual Audit, performed by independent Certified Public Accountants, were accepted by the Committee and the statements as certified by Price Waterhouse were recommended for printing in SPECTRUM.

The Committee decided to eliminate realized capital gains on our investments from consideration when planning the operations for the year. This was deemed necessary since the amount of realized capital gains can vary so substantially from year to year and may have been earned in a prior period.

6. History Committee. The activities of the 1967 Committee were concentrated on obtaining articles on historical subjects for referral to the SPECTRUM Editor for publication consideration. Two manuscripts have been recommended for this consideration, and several others are in various stages of preparation, review, or revision.

Among a number of other projects with which the History Committee is involved, the preparation of a history of the merger of the IRE and the AIEE to form the IEEE is of particular significance. This project is being carried out under the auspices of the Committee by Nelson Hibshman, retired IEEE Executive Consultant.

Although two formal meetings were held, much of the Committee work was done by correspondence.

7. Intersociety Relations Committee. During 1967 the ISRC continued its review of IEEE relationships with other organizations (EJC, ECPD, IEC, etc.). Following this review, procedures for the implementation of Policy #21, concerning appointments of IEEE Representatives to outside organizations, were developed and put into effect. Responsibility for such appointments was delegated to the chairmen of appropriate IEEE Boards and Standing Committees. In addition, sample report forms, schedules, etc. were developed and supplied to these chairmen so that the overall ISRC objective of a yearly review of an IEEE representatives' assessment of IEEE's relation with that organization would be initiated.

The ISRC also reviewed and acted upon such policy matters as: payments by IEEE Groups to outside organizations; IEEE association with the College Placement Councils; GRAD Program; amendments to AFIPS Constitution and Bylaws; involvement in Intersociety Awards; a proposed Constitution for EUSEC; IEEE relations with VITA; interactions of IEEE and IEE in the area of abstracts.

The ISRC Subcommittee on Scientific and Cultural Exchanges between the United States and the Soviet Union and Eastern European Nations further clarified IEEE policy with respect to such exchanges and through the ISRC and Executive Committee promulgated Policy Statement 2-Q. This Subcommittee also selected the 13-man delegation to the Popov Society meeting and generally looked after the requirements of this activity. It produced and distributed an extensive Guide for use by the IEEE delegation.

8. Internal Communications Committee. 1967 marked this Committee's first full year as a standing committee of the Institute. The ICC held six meetings during the year.

The ICC reviewed and commented on many Institute communications activities including: comprehensive billing; solicitation letters in connection with the 1968 Directory; and has recommended new function or job title groupings, as well as new categories for industry classifications for use in the next survey for the Directory; and reorganization of the Organizational Chart in the semi-annual

Organization Roster. The Committee has looked into the handling of correspondence at the Institute and found it to be adequate. The Committee also assisted the Life Member Fund Committee with its final solicitation to the Life Members. In addition, in accordance with the ICC's specifications, the Executive Committee approved new Group Chairmen, Section Chairmen, and Life Member pins which are in the process of manufacture.

"Electrical Engineering" is published under the jurisdiction of the ICC and the Committee is responsible for the new format of this bimonthly newsletter. Additional details concerning this newsletter may be found under the Publications Section of this report.

9. Life Member Fund Committee. The Committee decided that the investment portfolio of the Life Member Fund should be handled administratively together with the General Institute Funds. To this end \$80,477 was placed in the IEEE Institute and Section Investment Fund for which 7,400,568 shares were received.

Full support of the Regional Student Prize Contest winners in Regions 8, 9 and 10 was agreed to. This means that the cost of bringing the winners of the Regional contests in Regions 8, 9 and 10 to the 1968 IEEE International Convention will be borne by the Life Member Fund.

It was reaffirmed that \$10,000 a year is available to the Standards Committee to finance expenses of delegates to International Standards meetings or to the Secretariat until 1970. To date it is interesting to note that in 1966 only \$1,125 and in 1967 only \$847 was spent on this activity.

A plan was initiated to have student prize winners present their papers at a special session of the IEEE International Conventions.

A statement of the background of the Life Member Fund Committee together with a description of the uses to which the Fund is being put was written by Messrs. Renne and Llewellyn and included with the Life Member Fund solicitation which was sent out in November 1967.

10. Long Range Planning Committee. The Long Range Planning Committee was created at the November 1967 Board of Directors meeting. The Committee is responsible to the Board of Directors for reviewing the trends of science and technology as they may concern the Institute, the profession and the public, and for recommending such changes in the Institute's objectives, organization and operations as may be indicated by these trends.

The Long Range Planning Committee consists of the Junior Past President as Chairman, the Treasurer, and two other members of the Board of Directors who are not members of the Executive Committee.

The first meeting of the Committee will take place in March 1968.

11. Membership and Transfers Committee. Three meetings of the Committee were held in 1967. The activities can be summarized as follows:

Following the recommendations of this Committee: (1) the Executive Committee approved a new policy to establish a registration fee differential for members and nonmembers at all IEEE-sponsored conferences, meetings, symposia, etc; (2) authorization was given for members of the IEEE Staff to operate a Membership Services Desk at the maximum number of IEEE-sponsored conferences; (3) the Bylaws were changed to liberalize the requirements for Student Associate grade membership to allow any bona fide Student who is so interested to join IEEE as a Student Associate grade member.

A new reinstatement application form was designed and printed for the use of inactive members in reinstating their membership in the IEEE.

An Associate application form was designed and printed to use primarily in promoting membership during the major IEEE conferences.

Actions were taken to stimulate the enrollment of women members in the IEEE. The Society of Women Engineers cooperated in this area by publishing in its "Newsletter" an article about the benefits of IEEE membership. Student Counselors furnished the names of young women enrolled in the electrical engineering curriculum, and special letters were written to them inviting them to join the IEEE.

Group Membership Committee Chairmen were invited to attend the Committee meetings and to participate in joint efforts to promote IEEE and Group membership.

A membership drive was launched in November 1967, known as "Operation GIT" (G-Growth, I-Improvement, T-Transfers). In the memorandum issued to all organizational units of the IEEE, they were asked to support and cooperate in this drive. The objective is to obtain a 10% net gain in membership in the calendar year 1968.

12. Nominations and Appointments Committee. Three meetings of the Committee were held in 1967. At the first meeting in March, the Committee considered all nominations submitted by organizational units of the IEEE and selected candidates for the elective offices of the IEEE for recommendation to the Board of Directors.

This Committee is also concerned with recommending the names of chairmen and members of those Committees and Boards reporting to the Board of Directors.

At the August meeting, the Committee reviewed and agreed upon the candidates to be recommended to the Board for chairmen of Standing Committees and Boards for the ensuing year. Following appointment by the Board, the chairmen-elect were requested to submit their recommended slates for consideration by the Nominations and Appointments Committee. Those slates, as well as all other nominations received from organizational units of the IEEE, were reviewed at the November meeting, when Committee and Board slates for the new year were developed for consideration by the Board.

In 1967 a special ad hoc study committee was appointed charged with the task of reviewing the existing nomination procedure and recommending action to be taken to encourage maximum participation by individual members and IEEE organizational units in the submission of names of suitable candidates to be considered by the Nominations and Appointments Committee for the elective offices and for the Standing Committee and Board appointments.

13. Professional Relations Committee. A considerable amount of Committee effort has been expended in reviewing and recommending an IEEE policy and position with respect to Canons of Ethics. A continuing dialogue has developed between the Professional Relations Committee and the Executive Committee to clarify views in this area. In addition, the Professional Relations Committee, through its members, has been intimately involved in the ECPD Development of Young Engineers Committee, the ECPD Ethics Committee, and the National Council of Engineering Examiners. The Professional Relations Committee also sponsored a well attended special session at the 1967 IEEE International Convention entitled "Professional Relations and the Institute" chaired by Mr. C. F. Savage.
14. Publications Board. (See Section F and Section H-I)
15. Sections Committee. The activities of this Committee were considerably expanded in 1967 by the establishment of six ad hoc study Committees created to study and recommend actions

to be taken in areas found worthy of consideration by the Committee. Recommendations developed by the ad hoc study committees were considered at three meetings of the Sections Committee, and actions taken can be reported briefly as follows:

Long Range Planning for Sections. The recommendations of this Committee were referred to the Chairman of the newly-established Long Range Planning Committee for consideration.

Effective Programs for Continuing Education at the Section Level. The report of this Committee was referred to the Chairman of the newly-established Educational Activities Board for information. A draft of a "Section Manual on Continuing Education" is in preparation for review by the Sections Committee.

Section Relationship with Group Chapters, Groups and Student Branches. Following the suggestion of this ad hoc committee, the Board of Directors approved action to recognize the establishment of a Section Student Branch. All Sections have been encouraged to cultivate mutually beneficial relations between the Section, Students, and recent graduates.

Communications between Sections and the IEEE. Several of the recommendations of this ad hoc committee, which were referred to the Publications Board and to the IEEE General Manager for consideration, have been implemented; other recommendations are still under study.

Improving the Operating Efficacy of Sections. This ad hoc study committee developed revisions to the IEEE Section Manual, incorporating additional information considered useful in Section operations. A new Section Manual, together with a new separate "IEEE Section Public Relations and Publicity Guide" have been provided to all Sections.

Improving Sections Committee Structure, including the Forum for Section Chairmen. The plan of assigning specific tasks to ad hoc committees of the Sections Committee, which proved effective in 1967, is being continued in 1968. Studies continue on improvements to be made in the program and conduct of the Forum for Section Chairmen.

16. Technical Activities Board. (See Section H-II)

17. Tellers Committee. The IEEE Constitution provides that on or before September 1 a ballot shall be mailed to the voting membership to vote for the elective offices of the IEEE. All ballots received by 12:00 o'clock noon on the first working day following October thirty-first are counted. The Tellers Committee met on the afternoon of November 1, 1967 to supervise the counting of the ballots, with a report submitted to the Board of Directors showing the results of the vote.

In 1967 the necessary programs were developed to make it possible for the votes to be tallied on the computer in IEEE Headquarters.

SECTION H

V. IEEE GROUP INSURANCE PROGRAM

The Insurance Program approved by the Institute for its members showed another substantial increase in participation during 1967. The following table indicates the number of certificates in force for each of the Plans in the Program for the policy years ending in 1967.

<u>Certificates in Force</u>	
Loss of Time	2,726
Major Hospital-Nurse-Surgical	2,606
High-Limit Accidental Death and Dismemberment	3,683
Life Insurance	<u>9,582</u>
Total	<u>18,597</u>

The Life Insurance Plan policy year ended on August 31, 1967. September 1, 1967 marked the start of a special enrollment period of two and one-half months when members under age 50 who had been regularly at work were offered \$10,000 life insurance coverage without reference to prior medical history. This special enrollment period resulted in an increase of approximately 8,000 members insured under the Life Insurance Plan. As a result, there were approximately 26,700 certificates in force as of December 31, 1967 for all the Plans in the Program.

This amounted to a gain of approximately 15%.

VI. HEADQUARTERS STAFF ACTIVITIES

As of December 31, 1967, there were 279 permanent employees, plus two part-time consultants, on the IEEE staff. Staff assignments for the years ending 1966 and 1967 are reported as follows:

	12/31/66		12/31/67	
	Budget	Actual	Budget	Actual
Administrative Services				
Accounting		15		15
EDP		22		24
Membership Services		22		28
Operations		115		100
Treasury		<u>4</u>		<u>4</u>
Totals	178	178	176	171
Editorial Services				
Spectrum		9		12
Proceedings		5		6
Group Transactions		33		38
Student Journal		1		1
Other Publications		5		4
General Editorial Office		<u>1</u>		<u>1</u>
Totals	52	53	59	62
Educational Services				
Awards		2		2
Student Branches		3		3
Public Relations		1		1
Support of other organizations		<u>3</u>		<u>2</u>
Totals	8	9	9	8
Executive Office	16	17	17	17
Information Services				3
Technical Services	<u>19</u>	<u>17</u>	<u>21</u>	<u>20</u>
Total	273	274	282	281

Personnel changes during the year included the following:

- (1) Howard E. Tompkins joined the permanent staff July 1, 1967, when the new Information Services Department was formed.
- (2) Nelson S. Hibshman, Executive Consultant, retired in February 1967.
- (3) J. Howard Schumacher joined the staff as Manager of Technical Services on September 5, 1967.