

REPORT OF THE SECRETARY

1965



The Institute of Electrical and Electronics Engineers, Inc.
345 East 47th Street, New York, N. Y. 10017

REPORT OF THE SECRETARY - 1965

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

Gentlemen:

The Report of the Secretary for the year 1965, the third year of operations of the merged IEEE, is presented herewith.

Membership has grown slightly during the year. There was a decline in the number of Associates following a trend during the past few years. The number of Students remains about the same though considerably lower than in 1963. A 10% increase in Group members is noted, but Group Affiliate memberships dropped to about one-half the number at the end of year 1964.

Your attention is called to the increase of about 3% in the total number of editorial pages published by the Institute during 1965.

Attendance at the 1965 International Convention was about 8% less than in 1964, the number of exhibitors was down also 8%, but the number of technical papers presented increased about 14%.

The number of IEEE- and jointly-sponsored technical meetings went up 10% to a total of 95.

These data indicate a general growth trend with increased services to members. Organizationally, the Headquarters management appears to have achieved an increased effectiveness.

Respectfully submitted

Haraden Pratt
Secretary

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SECTION A

Table 1 - IEEE Membership by Grade, Percentage, 3-Year Comparison

Grade	December 31, 1963		December 31, 1964		December 31, 1965	
	No.	% of Total	No.	% of Total	No.	% of Total
Honorary (H)	5		8		6	
Fellow (F)	2,589	2	2,595	1	2,681	2
Senior Member (SM)	26,274	17	26,182	17	26,387	17
Member (M)	82,750	53	87,435	57	87,916	57
Associate (A)	14,215	9	13,682	9	12,949	8
Student (S)	28,676	19	24,076	16	24,259	16
Total	154,509	100	153,978	100	154,198	100

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

	H	F	SM	M	A	Student	Total	Percentage
Region 1	2	893	6,504	22,376	3,550	5,197	38,522	25
Region 2		510	5,190	15,098	1,966	3,090	25,854	17
Region 3		224	2,413	7,700	969	2,693	13,999	9
Region 4	1	248	2,907	9,208	1,355	4,222	17,941	12
Region 5	1	182	2,202	6,432	942	3,223	12,982	8
Region 6		428	4,877	19,134	2,329	3,467	30,235	20
Subtotal	4	2,485	24,093	79,948	11,111	21,892	139,533	91
U. S. Overseas								
Military		3	67	563	81	22	736	.5
U. S. Possessions		-	2	5	5	-	12	
Subtotal	-	3	69	568	86	22	748	.5
Region 7	1	65	908	3,331	803	1,717	6,825	4.5
Region 8		100	736	1,915	529	233	3,513	2
Region 9	1	28	581	2,154	420	395	3,579	2
Subtotal	2	193	2,225	7,400	1,752	2,345	13,917	8.5
Grand Total	6	2,681	26,387	87,916	12,949	24,259	154,198	100

Region	December 31 1963	Per- centage	December 31 1964	Per- centage	December 31 1965	Per- centage
1	39,461	25	39,005	25	38,522	25
2	26,032	17	25,881	17	25,854	17
3	13,217	9	13,564	9	13,999	9
4	18,067	12	17,748	12	17,941	12
5	13,048	8	12,896	8	12,982	8
6	30,586	20	30,456	20	30,235	20
Subtotal	140,411	91	139,550	91	139,533	91
U. S. Overseas						
Military	908		818		736	
U. S. Possessions	210		-		12	
Subtotal	1,118	1	818	1	748	.5
7	6,383	4	6,597	4	6,825	4.5
8	3,473	2	3,438	2	3,513	2
9	3,124	2	3,575	2	3,579	2
Subtotal	12,980	8	13,610	8	13,917	8
Grand Total	154,509	100	153,978	100	154,198	100

SECTION A

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

	<u>December 31, 1963</u>	<u>December 31, 1964</u>	<u>December 31, 1965</u>
Fellow	887	1,008	1,006
Senior Member	1,414	1,785	1,797
Member	786	964	986
Associate	7	13	20
Total	3,096	3,772	3,809

Table 4 - IEEE Membership Changes, by Grade, 1965, 3-Year Comparison

	<u>H</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>Student</u>	<u>Total</u>
<u>GAINS</u>							
Elections			399	3,564	629	12,516	17,108
Reinstatements		106	506	2,711	441	839	4,603
Transfers to		125	308	2,709	416	3	3,561
Total Gain		231	1,213	8,984	1,486	13,358	25,272
<u>LOSSES</u>							
Transfers from			105	311	181	2,964	3,561*
Voided Elections				18	21	1	40
Deceased	2	129	282	237	32	5	687
Resignations		9	215	751	267	80	1,322
Dues Arrears		7	406	7,186	1,718	10,125	19,442
Total Loss	2	145	1,008	8,503	2,219	13,175	25,052
Net Gain/Loss	-2	+86	+205	+481	-733	+183	+220

*Analysis of Transfers, by Grade

	<u>SM</u>	<u>M</u>	<u>A</u>	<u>Student</u>	<u>Total</u>
Transfers from					
Transfers to F	105	19	1	-	125
Transfers to SM	-	289	19	-	308
Transfers to M	-	-	161	2,548	2,709
Transfers to A	-	-	-	416	416
Transfers to S	-	3	-	-	3
Total	105	311	181	2,964	3,561

	<u>12/31/63</u>	<u>12/31/64</u>	<u>12/31/65</u>
<u>GAINS</u>			
Elections	14,337	16,121	17,108
Reinstatements	2,624	4,656	4,603
Transfers to	2,949	4,007	3,561
Total Gain	19,910	24,784	25,272
<u>LOSSES</u>			
Transfers from	2,949	4,007	3,561
Voided Elections	22	18	40
Deceased	543	505	687
Resignations	1,063	1,840	1,322
Dues Arrears	20,952	18,945	19,442
Total Loss	25,529	25,315	25,052
Net Gain/Loss		-531	+220

SECTION B

Table 1 - IEEE Membership by Region, by Section and Subsection,
by Grade, December 31, 1965

REGION 1

Section	H	F	SM	M	A	Student	Subtotal	Section Total
Berkshire		32	142	211	18	21		424
Binghamton		3	93	508	59	106		769
Boston	1	138	927	3,563	494	589	5,712	6,798
Lynn		5	87	217	28	45	382	
Merrimack Valley		6	81	448	64	105	704	
Buffalo		9	228	552	97	154		1,040
Connecticut		28	200	762	105	174		2,628
Fairfield County		22	211	619	106	63	1,021	
New London		4	39	210	34	51	338	
Elmira-Corning		2	36	111	16	21		186
Ithaca		8	16	52	2	85		163
Long Island		66	662	2,605	422	224		3,979
Maine		8	42	112	18	96		276
Mid-Hudson		4	77	691	102	28		1,205
Catskill		1	13	232	43	14	303	
Mohawk Valley		4	71	356	53	37		683
St. Lawrence Internat'l		1	11	39	6	105	162	
New Hampshire		11	91	325	37	120		584
New Jersey Coast		40	221	828	106	85		1,280
New York	1	106	747	2,674	691	1,359		6,882
Westchester		32	255	766	144	107	1,304	
North Jersey		180	1,032	3,127	469	640		5,448
Princeton		53	230	752	90	157		1,282
Providence		2	82	265	37	127		753
Southeastern Mass.		8	29	81	34	88	240	
Rochester		4	149	668	105	105		1,031
Schenectady		74	324	428	26	179		1,169
Adirondack		7	37	65	9	20	138	
Springfield		3	44	107	26	101		281
Syracuse		25	240	745	66	73		1,149
Vermont		3	33	92	16	40		184
Worcester County		4	54	165	27	78		328
	2	893	6,504	22,376	3,550	5,197		38,522

SECTION B

Table 1 - IEEE Membership by Region, by Section and Subsection,
by Grade, December 31, 1965

REGION 2

Section	H	F	SM	M	A	Student	Subtotal	Section Total
Akron		9	101	285	39	76		510
Baltimore		40	414	1237	162	95		2522
Annapolis		4	90	350	43	22	509	
Eastern Shore		1	9	43	6	6	65	
Canton			49	93	15	16		173
Central Pennsylvania		5	58	200	17	189		469
Cincinnati		10	137	462	44	69		722
Cleveland		44	445	952	138	278		1857
Columbus		12	157	475	63	325		1089
Cambridge			1	4			5	
Chillicothe			11	6		4	21	
Zanesville			10	18	1	2	31	
Dayton		19	216	735	119	158		1247
Delaware Bay		2	59	193	16	80		350
Emporium-Ridgway		2	56	68	11	9		146
Erie		4	91	153	26	33		307
Johnstown		1	35	83	15	27		161
Lehigh Valley		16	190	480	78	159		923
Lima		2	55	104	5	56		222
North Central Ohio		2	36	71	12	6		127
Ohio Valley			11	35	11	4		70
Scioto			2	5		2	9	
Philadelphia		110	960	3468	435	543		5516
Pittsburgh		88	569	1103	95	217		2180
Upper Monongahela		2	13	24	3	66	108	
Sharon		10	92	124	12	102		340
Southern New Jersey		2	11	112	18	14		157
Susquehanna		5	84	278	37	40		444
Washington		120	1196	3834	517	436		6103
West Virginia			32	103	28	56		219
		510	5190	15,098	1966	3090		25,854

SECTION B

Table 1 - IEEE Membership by Region, by Section and Subsection,
by Grade, December 31, 1965

REGION 3

Section	H	F	SM	M	A	Student	Subtotal	Section Total
Alabama		7	115	288	20	224		654
Atlanta		16	217	416	65	168		927
Rome			15	26	2	2	45	
Baton Rouge		1	26	76	3	94		298
Lafayette			3	18	3	74	98	
Canaveral		6	109	716	106	34		971
Central North Carolina			26	144	13	6		189
Central Virginia		9	78	247	15	52		401
Charlotte		9	89	157	21	49		325
Chattanooga		11	71	129	12	14		237
Daytona		6	41	133	14	4		198
Eastern North Carolina		14	67	253	43	205		582
East Tennessee		3	82	114	3	121		391
Upper East Tennessee		1	16	39	5	7	68	
Evansville-Owensboro		2	53	118	12	41		267
Paducah			5	27	5	4	41	
Florida West Coast		39	173	558	85	23		878
Fort Walton			8	64	11	5		88
Gainesville		4	32	70	9	139		254
Hampton Roads		4	38	283	39	38		402
Huntsville		3	85	778	82	34		1,011
Muscle Shoals			6	22	1		29	
Jacksonville		1	40	94	26	6		167
Lexington		1	19	123	4	69		216
Louisville		1	43	158	12	50		264
Memphis		2	65	93	24	153		378
Jackson			10	22	2	7	41	
Miami		23	127	289	64	54		557
Middle Tennessee			22	72	5	10		109
Mississippi			21	95	6	25		334
Northeast Mississippi		2	6	39	2	138	187	
Mobile			12	88	5	11		116
Nashville		5	55	89	17	264		430
New Orleans		7	124	414	42	72		659
Oak Ridge		1	38	80	5	7		131
Orlando		11	102	337	50	8		508
Palm Beach		11	36	102	21	4		174
Panama City			14	55	4	3		76
Pensacola		1	12	29	2	1		45
Richmond		3	55	164	19	13		254
Savannah			12	45	6	1		64
South Carolina:								585
Central Savanna River			10	28	4	4	46	
Charleston		1	19	95	13	40	168	
Columbia		4	37	68	10	50	169	
Piedmont		2	23	62	8	107	202	
Virginia Mountain		6	85	157	18	234		500
Western North Carolina		6	25	48	7	7		93
Winston Salem		1	46	178	24	17		266
		224	2,413	7,700	969	2,693		13,999

SECTION B

Table 1 - IEEE Membership by Region, by Section and Subsection,
by Grade, December 31, 1965

REGION 4

Section	H	F	SM	M	A	Student	Subtotal	Section Total
Arrowhead		2	17	76	8	11		114
Cedar Rapids		7	74	335	41	48		505
Central Illinois		12	99	291	31	164		597
Central Indiana		15	149	554	60	308		1,149
Bloomington		2	12	35	7	7	63	
Central Iowa		8	57	112	6	171		354
Chicago		56	766	2,158	457	731		5,087
Calumet		2	36	82	15	48	183	
Fox Valley		4	178	433	78	43	736	
Fort Wayne		11	108	245	37	158		559
Illinois Valley		1	37	57	8	70		173
Iowa-Illinois		2	52	111	20	15		247
Burlington			6	31	6	4	47	
Madison		8	33	102	8	159		310
Milwaukee		28	252	794	63	233		1,460
Racine-Kenosha			10	60	8	12	90	
Nebraska		10	102	254	57	273		696
Northeast Michigan		2	45	119	19	28		213
Northeastern Wisconsin		3	31	119	12	82		247
Rock River Valley		3	36	128	17	13		197
Siouxland			22	49	14	36		121
South Bend			48	179	34	317		578
Southeastern Michigan	1	49	413	1,337	208	660		2,668
Southern Minnesota			14	132	11	7		164
Toledo		3	86	142	24	100		355
Twin Cities		16	161	1,071	81	342		1,872
Red River Valley		1	12	61	5	122	201	
West Michigan		3	51	141	20	60		275
	1	248	2,907	9,208	1,355	4,222		17,941

SECTION B

Table 1 - IEEE Membership by Region, by Section and Subsection,
by Grade, December 31, 1965

REGION 5

Section	H	F	SM	M	A	Student	Subtotal	Section Total
Arkansas		5	45	108	16	19		381
Northwest Arkansas			21	47	3	117	188	
Beaumont		3	37	98	19	113		316
Lake Charles			8	31	4	3	46	
Central Texas		15	93	259	38	207		612
Corpus Christi		3	33	49	12	45		176
Victoria-Pt. Lavaca			7	19	5	3	34	
Dallas	1	25	251	1,255	133	121		1,823
Waco			6	22	4	5	37	
Denver		29	302	766	94	395		1,857
Black Hills			4	23	1	54	82	
Pikes Peak		1	38	119	9	22	189	
El Paso		1	51	252	44	152		500
Fort Worth		6	72	270	47	89		484
Houston		9	230	871	133	359		1,640
Freeport			5	30		3	38	
Kansas City		13	216	398	84	280		991
Oklahoma City		11	126	258	35	101		531
Panhandle		1	28	57	18	6		110
St. Louis		43	325	951	102	631		2,052
Shreveport		2	75	94	30	94		330
Monroe			7	17	2	9	35	
South Plains			17	41	9	23		144
Permian Basin			5	35	9	5	54	
Tulsa		9	116	199	57	271		652
West Central Texas		1	17	43	9	3		73
Wichita		5	67	120	25	93		310
	<u>1</u>	<u>182</u>	<u>2,202</u>	<u>6,432</u>	<u>942</u>	<u>3,223</u>		<u>12,982</u>

SECTION B

Table 1 - IEEE Membership by Region, by Section and Subsection
by Grade, December 31, 1965

REGION 6

Section	H	F	SM	M	A	Student	Subtotal	Section Total
Alamogordo-Holloman			12	65	16			93
Albuquerque		6	120	392	59	120		822
Los Alamos-Santa Fe			31	82	8	4	125	
Anchorage			14	77	25	28		144
Antelope Valley			8	54	8			70
Boise			36	31	2	6		75
Buena Ventura		2	43	277	29	14		365
China Lake			10	95	15	7		127
Foothill		7	178	807	105	77		1,174
Fort Huachuca		1	34	80	6	2		123
Hawaii		3	36	211	54	46		350
Idaho		1	9	74	6	7		97
Las Vegas			15	126	24	8		173
Met. Los Angeles		15	218	804	137	193		1,367
Montana				2				285
Billings		1	7	29	2	3	42	
Butte			13	19	4	9	45	
Helena		1	10	48	4	133	196	
Orange County		19	373	2,116	267	88		2,863
Phoenix		21	232	806	71	220		1,350
Portland		33	206	452	52	65		1,125
Eugene		2	19	45	8	141	215	
Medford		2	3	21	4	72	102	
Richland		3	42	77	9	4		173
Walla Walla			5	22	2	9	38	
Sacramento		3	82	312	52	49		694
Reno			14	38	3	25	80	
San Joaquin			10	31	11	18	70	
Shasta			7	26	10	3	46	
San Diego		17	190	791	93	94		1,185
San Fernando Valley		16	397	1,419	204	64		2,100
San Francisco		45	382	1,009	164	156		7,186
East Bay		28	211	762	83	228	1,312	
Fresno		1	10	32	8	32	83	
Santa Clara Valley		78	526	2,781	254	396	4,035	
San Gabriel Valley		21	232	666	91	62		1,072
Santa Barbara		18	65	219	21	145		468
Santa Monica Bay		38	336	1,085	110	118		1,687
Seattle		18	284	1,156	83	226		1,856
Tacoma		2	20	49	9	9	89	
South Bay Harbor		7	237	1,247	143	78		1,712
Spokane		9	49	92	11	101		262
Tucson		5	58	151	13	82		309
Utah		5	61	257	22	308		653
Vandenberg			20	167	25	14		226
Wenatchee			12	32	2	3		49
		428	4,877	19,134	2,329	3,467		30,235

SECTION B

Table 1 - IEEE Membership by Region, by Section and Subsection
by Grade, December 31, 1965REGION 7

Section	H	F	SM	M	A	Student	Subtotal	Section Total
Bay of Quinte		3	40	96	15	82		236
Hamilton		2	49	155	44	69		319
Kitchener-Waterloo		1	14	49	25	33		165
Guelph			9	24	4	6	43	
London			15	74	31	53		173
Montreal		12	246	841	122	133		1,354
Niagara-International		2	39	104	19	39		203
Northern Alberta			9	86	22	152		269
Ottawa	1	16	97	449	95	133		791
Quebec			20	80	7	19		126
Regina			4	39	12	79		134
St. Maurice		1	6	24	10	2		43
Southern Alberta			4	51	33	206		294
Toronto		18	202	771	235	295		1,521
Vancouver		7	123	322	85	267		804
Victoria		2	18	63	17	7		107
Winnipeg		1	13	103	27	142		286
	<u>1</u>	<u>65</u>	<u>908</u>	<u>3,331</u>	<u>803</u>	<u>1,717</u>		<u>6,825</u>

REGION 8

Benelux		10	70	150	36	69		335
Egypt			16	50	15	6		87
France		14	72	155	52	3		296
Geneva		11	62	153	19	14		259
Israel		2	11	88	20	8		129
Italy			41	185	108	36		370
Norway		1	15	46	8			70
Sweden		7	22	112	54	5		200
United Kingdom & Eire		40	298	615	104	28		1,085
West Germany		10	54	101	27			192
		<u>95</u>	<u>661</u>	<u>1,655</u>	<u>443</u>	<u>169</u>		<u>3,023</u>

REGION 9

Buenos Aires		3	24	69	24	35		155
Chile			8	25	6	2		41
Colombia			8	67	14	19		108
Kanpur-India		1	1	8				10
Mexico		5	59	148	19	53		284
Puerto Rico & Virgin Is.			21	128	17	69		235
Rio de Janeiro		3	8	35	6	1		53
Tokyo	1	10	110	333	98	142		694
	<u>1</u>	<u>22</u>	<u>239</u>	<u>813</u>	<u>184</u>	<u>321</u>		<u>1,580</u>

SECTION B

Table 2 - IEEE Membership, Region 8, by Country, by Grade,
December 31, 1965 - Three-Year Comparison

REGION 8

Country							12/31/65	12/31/64	12/31/63
	H	F	SM	M	A	Student	Total	Total	Total
Algeria				1	1		2		2
Austria			3	7		1	11	12	11
Cyprus			2	11	3		16	15	14
Czechoslovakia			1	8	6		15	16	14
Denmark		1	12	61	20	1	95	90	108
Finland			2	5	6		13	13	10
Germany (& Berlin)			4	3	3	1	11	7	7
Greece (& Crete)		1	5	30	8	1	45	46	39
Greenland				1			1		
Hungary			5		1		6	6	4
Iceland				5	2		7	6	5
Iraq			1	7	1	1	10	8	6
Jordan			1	2			3	3	3
Lebanon			4	20	4	2	30	25	25
Libya			4	13	3		20	13	11
Malta				5			5	3	3
Morocco					1		1	3	2
Poland		1	2	2	2	1	8	7	10
Portugal (incl. Azores & Maderia Is.)			2	7		1	10	5	4
Rumania				2			2	0	3
Spain		1	7	33	9	53	103	89	82
Syria				6	1	1	8	10	6
Turkey			2	26	7	1	36	29	24
U. S. S. R.		1	16	4	4		21	27	25
Yugoslavia			2	5	4		11	11	8
Total		<u>5</u>	<u>75</u>	<u>260</u>	<u>86</u>	<u>64</u>	<u>490</u>	<u>444</u>	<u>426</u>
Territory Assigned to IEEE Sections		<u>95</u>	<u>661</u>	<u>1655</u>	<u>443</u>	<u>169</u>	<u>3023</u>	<u>2,600</u>	<u>2,544</u>
GRAND TOTAL:	100		736	1915	529	233	3513	3,241	3,196

SECTION B

Table 3 - IEEE Membership, Region 9, by Country, by Grade, December 31, 1965
Three-Year Comparison

Country	H	F	SM	M	A	S	12/31/65 Total	12/31/64 Total	12/31/63 Total
Aden				2			2	3	3
Afghanistan			1	2			3	5	3
Angola									1
Ascension Island									1
Australia		1	51	156	16	22	246	235	228
Bahrain				3	2		5		
Bermuda			1					6	5
Bolivia			2	11			12	8	4
Brazil (except Rio Section)			12	48	16	7	83	101	125
British Guiana			1	3	1		5	4	3
Burma				2			2	2	11
Cameroun					5		5		
Ceylon			4	2	2		8	10	9
China (mainland)			1	9			10		
Congo					1		1	3	1
Costa Rica			1	9	1		11	13	13
Cuba			2	3			5	4	6
Ecuador			4	7	1		12	15	15
El Salvador		1		10			11	11	12
Ethiopia				6	1		7	7	6
Fiji Islands				1			1	1	1
Formosa (Taiwan)				1			1	10	9
Ghana				10	1		11	12	11
Guatemala				9	1		10	7	7
Haiti				1			1		
Honduras				1			1	1	2
Hong Kong			8	55	11	2	76	59	37
India (except Kanpur Section)		3	128	522	78	13	744	757	609
Indonesia			1	4	1		6	16	42
Iran			5	18	1		24	22	16
Ivory Coast									1
Kenya			3	9	2	1	15	14	11
Kuwait			3	12	8	2	25		
Liberia			2				2	3	5
Macao				1			1		
Madagascar				1			1		
Malawi				2		3	5		
Malaysia			4	45	5	1	55	51	50
Mauritius				4			4	3	2
Nepal				2			2	1	1
Netherlands Antilles			1	5			6	5	2
New Guinea				1			1	1	1
New Zealand			8	27	6		41	35	29
Nicaragua				2	1		3	3	3
Nigeria			3	24	4		31	24	21
Okinawa								4	
Pakistan		1	22	55	6	1	85	98	78
Panama			2	6	2	1	11	9	8
Paraguay								1	2
Peru			7	24	4	16	51	33	28
Philippines			7	21	5		33	33	28
Rhodesia			2	8	1		11	15	11
Samoa								1	1
Saudi Arabia			5	19	1		25	63	35
Sierra Leone				2			2		
South Korea			4	10	1		15	21	20

SECTION B

Table 3 - IEEE Membership, Region 9, by Country, by Grade, December 31, 1965
Three-Year Comparison - CONTINUED

Country	H	F	SM	M	A	S	12/31/65 Total	12/31/64 Total	12/31/63 Total
Southwest Africa					1		1		
Sudan			1	1			2	5	6
Surinam			1	2	1		4		
Tanzania			1	1			2	3	4
Thailand			5	18	1	1	25	29	37
Uganda				1			1		
Union of South Africa			16	38	6		60	57	59
Upper Volta								1	
Uruguay				2	2		4	6	7
Venezuela			17	75	22	3	117	115	108
Viet-Nam			1	5	1		7	6	7
West Indies			7	22	16	1	46	63	52
Zambia				1	1		2		
		6	342	1,341	236	74	1,999	2,015	1,797
Territory assigned to IEEE Sections	1	22	239	813	184	321	1,580	1,560	1,378
	1	28	581	2,154	420	395	3,579	3,575	3,175
Overseas Military		3	67	563	81	22	736	818	908
U. S. Possessions			2	5	5		12		210

SECTION B

Table 4 - IEEE Section and Subsection Meetings, 1965*

S - Section Meetings
 SS - Subsection Meetings
 G - Group Chapter Meetings
 TG - Technical Group Meetings

Section and Subsection	Meetings				Section and Subsection	Meetings			
	S	SS	G	TG		S	SS	G	TG
Akron	9		11		Colombia	1			
Alabama	10			19	Columbus	6		1	
Alamogordo-Holloman	5				Cambridge		2		
Albuquerque	1				Chillicothe		4		
Los Alamos-Santa Fe		2			Zanesville		6		
Anchorage	10				Connecticut	6		4	5
Antelope Valley	8				Fairfield County		9		
Arkansas	7				New London		6		
Northwest Arkansas		8			Corpus Christi	8			
Arrowhead	5			2	Victoria-Port Lavaca		8		
Atlanta	9		5		Dallas	3		13	
Rome		8			Waco		0		
Baltimore	6		30	6	Dayton	4		11	
Annapolis		6			(2) Daytona	0			
Eastern Shore		6			Delaware Bay	10			5
Baton Rouge	9				Denver	8		14	
Lafayette		4			Black Hills		4		
Bay of Quinte	8				Pikes Peak		6		
Beaumont	9				East Tennessee	10		5	
Lake Charles		8			Upper East Tennessee		3		
Benelux	0				Egypt	11			
Berkshire	4				Elmira-Corning	3			
Binghamton	5		3		El Paso	8			
Boise	7				Emporium-Ridgway	12			
Boston	2		91		Erie	4			
Lynn		4			Evansville-Owensboro	7			
Merrimack Valley		8			Paducah		4		
Buenaventura	8		5		Florida West Coast	5		11	4
Buenos Aires	18				Foothill	4		9	
Buffalo	3		3		Fort Huachuca	8			1
Canaveral	10		5		Fort Walton	8			
Canton	9				Fort Wayne	8			
Cedar Rapids	2				Fort Worth	11		3	
Central Illinois	3				France	11			
Central Indiana	1		9		Gainesville	7			
Bloomington		8			Geneva	10			
Central Iowa	13				Hamilton	6			
Central Pennsylvania	6				Hampton Roads	8			
Central Texas	8		6		Hawaii	10			
Central Virginia	4				Houston	3		10	3
Chattanooga	8		6		Freeport		5		
Chicago	6		24	2	Huntsville	9		21	
Calumet		2			Muscle Shoals		10		
Fox Valley		7			Idaho	4			
Chile	7				Illinois Valley	9			8
China Lake	3				Iowa-Illinois	8			1
Cincinnati	7		6		Burlington		8		
(1) Richmond		0			Israel	2			
Cleveland	1		9		Italy	4			

Section and Subsection	Meetings				Section and Subsection	Meetings			
	S	SS	G	TG		S	SS	G	TG
Ithaca	6				Norway	4			
Jacksonville	9			27	Oak Ridge	9			
Johnstown	5				Ohio Valley	7			
(3) Kanpur (India)	0				Scioto		1		
Kansas City	4		6	1	Oklahoma City	8		5	
Kitchener-Waterloo	5				Orange County	6		14	
Guelph		4			Orlando	6		11	1
Las Vegas	8				Ottawa	8		2	1
Lehigh Valley	7			15	Palm Beach	12			
Lexington	7				Panama City	7			
Lima	6		2	4	Panhandle	9			
London (Canada)	6				Pensacola	9			
Long Island	7		22		Philadelphia	8		83	21
Los Angeles District	2		131	8	Phoenix	4		8	1
Louisville	10				Pittsburgh	2		16	4
Madison	5		1		Upper Monongahela		6		
Maine	4				Portland	9		12	10
Memphis	10		8		Eugene		4		
Jackson		7			Medford		0		
Met. Los Angeles	5				Princeton	7			
Mexico	6				Providence	7			
Miami	9				Southeastern Mass.		4		
Middle Tennessee	7		3		Puerto Rico &	5			
Mid-Hudson	5		3		Virgin Islands				
Catskill		4			Quebec	6			
Milwaukee	8		9	5	Regina	6			
Racine-Kenosha		2			Richland	9			
Mississippi	8			4	Walla Walla		3		
Northeast Mississippi			5		Richmond	10			
Mobile	9				Rio de Janeiro	0			
Mohawk Valley	7		7		Rock River Valley	9			
St. Lawrence Int'l		7			Rochester	6		7	
Montana	2				Sacramento	9		3	
Billings		5			Reno		1		
Butte		2			San Joaquin		3		
Helena		9			Shasta		2		
Montreal	9				Saint Louis	7		6	1
Nashville	10				(10) Eastern Division		0		
Nebraska	11		8		Saint Maurice	6			
New Hampshire	15				San Diego	2		10	
New Jersey Coast	3		3		San Fernando Valley	5			
New Orleans	8		5		San Francisco	0		87	
New York	2		54	38	East Bay		6		
Monmouth		2			Fresno		2		
Westchester		0			Santa Clara Valley		6		
Niagara International	5				San Gabriel Valley	9			
(4) North Carolina	5		2	6	Santa Barbara	10			
(5) Central North Carolina		4			Santa Monica Bay	5			
(6) Charlotte		7			Savannah	8			
(7) Eastern North Carolina		8			Schenectady	12		9	2
(8) Northwestern North Carolina		9			Adirondack		5		
(9) Western		9			Seattle	4		17	
North Central Ohio	8				Tacoma		5		
Northeast Michigan	10				Sharon	8			
Northeastern Wisconsin	5				Shreveport	8		2	1
Northern Alberta	5				Monroe		10		
North Jersey	6		21		Siouxland	10			

<u>Section and Subsection</u>	<u>Meetings</u>		<u>G</u>	<u>TG</u>	<u>Section and Subsection</u>	<u>Meetings</u>			
	<u>S</u>	<u>SS</u>				<u>S</u>	<u>SS</u>	<u>G</u>	<u>TG</u>
South Bay Harbor	5				Tucson	9			
South Bend	8				Tulsa	10			3
South Carolina	5				Twin Cities	7		26	
Central Savannah River		0			Red River Valley		9		
Charleston		8			United Kingdom & Eire	11			
Columbia		6			Utah	2			
Piedmont		8			Vancouver	2		6	
Southeastern Michigan	4		19	1	Vandenberg	8			
Southern Alberta	7				Vermont	11			
Southern Minnesota	5				Victoria	9			
Southern New Jersey	8				Virginia Mountain	7			
South Plains	4				Washington	9		58	
Permain Basin		7			Wenatchee	9			
Spokane	10				West Central Texas	8			
Springfield	9			8	West Germany	3			
Susquehanna	8			2	West Michigan	3			
(11) Sweden	1				West Virginia	20			
Syracuse	4		13		Wichita	0			
Tokyo	8				(12) Williamsport	0			
Toledo	10				Winnipeg	11			
Toronto	3		6	10	Worcester County	6			1
					Total	1,256	326	1,020	241
					Grand Total	2,843			

*As reported to IEEE Headquarters 12/31/65

- (1) - Subsection dissolved 8/25/65
- (2) - Section established 12/1/65
- (3) - Section established 8/25/65
- (4) - Section dissolved 11/3/65
- (5) - Subsection elevated to full Section 11/3/65
- (6) - Subsection elevated to full Section 11/3/65
- (7) - Subsection elevated to full Section 11/3/65
- (8) - Subsection elevated to full Section (Winston-Salem) 11/3/65
- (9) - Subsection elevated to full Section 11/3/65
- (10) - Subsection dissolved 8/25/65
- (11) - Section established 3/20/65
- (12) - Section dissolved 10/5-6/65

TABLE 5 - SUMMARY OF REGIONAL ACTIVITY, 1965; 3-Year Comparison

Region No.	1	2	3	4	5	6	7	8	9	Other	Total
<u>1965</u>											
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*
Technical Discussion Groups	13	20	9	8	3	6	5	-	-		64
Student Branches	63	41	31	35	35	41	24	4	4		278
<u>Meetings:</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 Groups	54	57	61	19	9	12	21	-	-		233
Student Branches	290	220	167	254	190	243	84	32	10		1,490
Total Meetings	773	705	679	555	443	662	225	89	55		4,186**
<hr/>											
<u>1964</u>											
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
<u>Meetings:</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 Groups	140	72	57	67	38	38	22	-	-		434
Student Branches	351	252	197	238	200	272	94	1	12		1,617
Total Meetings	963	840	714	717	505	959	255	52	45		5,050
<hr/>											
<u>1963</u>											
Membership	39,461	26,032	13,217	18,067	13,048	30,586	6,383	3,473	3,124	1,118	154,509
Sections	22	24	33	22	18	31	16	9	6		181
Subsections	11	3	7	5	6	7	1	-	-		40
Group Chapters	72	88	24	59	30	83	13	-	1		370*
Student Branches	61	38	30	35	34	38	17	2	5		260
<u>Meetings:</u>											
Sections	142	131	191	130	136	178	113	46	29		1,096
Subsections	45	27	67	19	24	35	4	-	-		221
Group Chapters	237	255	30	105	20	291	10	-	1		949
Technical Discussion Groups	65	26	17	22	12	18	9	-	-		169
Student Branches	330	260	170	211	187	283	62	10	16		1,529
Total Meetings	819	699	475	487	379	805	198	56	46		3,964

* Joint Chapters of 2 or more Sections - recorded as one Chapter.

Joint Chapters of 2 or more Groups - counted individually.

**As reported to IEEE Headquarters as of 12/31/65.

A major activity of many Sections is the publication of a monthly Bulletin for the announcement of the local activities.

Fifty-two of the Sections now issuing these monthly publications are listed below:

<u>Section</u>	<u>Publication</u>
Akron	"Bulletin"
Albuquerque	"The Blast"
Atlanta	"Atlanta Circuit"
Baltimore	"The Speaker"
Benelux	"The Benelux Bridge"
Binghamton	"Pulse"
Boston	"The Reflector"
Buenos Aires	"Boletin"
Canaveral	"Indian River Engineer"
Central Indiana	"The Reporter"
Central Pennsylvania	"Newsletter"
Central Texas	"The Analog"
Chicago	"IEEE Scanfax"
Cincinnati	"IEEE Cincinnati Section News"
Cleveland	"Cleveland Section News"
Connecticut	"The CONNector"
Dallas	"Direction"
Dayton	"Wave Guide"
Emporium-Ridgway	"Newsletter"
Evansville-Owensboro	"The Transmitter"
Florida West Coast	"Suncoast Signal"
Fort Walton	"The Courier"
Fort Wayne	"The Announcer"
Houston	"The Scope"
Huntsville	"The Live Wire"
Lehigh Valley	"Newsletter"
Long Island	"The Pulse"
Los Angeles	"IEEE Bulletin"
Mohawk Valley	"Echoes"
Montreal	"Current PHASE Courante"
New Jersey Coast	"The Scanner"
New York	"The Monitor"
North Carolina	"Bulletin"
North Jersey	"The Newsletter"
Orlando	"Orlando Section Notes"
Ottawa	"Bulletin"
Philadelphia	"Almanack"
Pittsburgh	"IEEE Bulletin"
Portland	"The BEEEP"
Princeton	"The P. S."
St. Louis	"The Mighty MHO"
San Diego	"IEEE Bulletin"
San Francisco	"IEEE Grid"
Schenectady	"News Bulletin"
Seattle	"Data Link"
South Bend	"The Nucleus"
South Carolina	"Southern Corona"
Syracuse	"Scanner"
Tokyo	"Denshi Tokyo"
Twin Cities	"The Radiator"
Vancouver	"Contact"
Virginia Sections	"The Virginia Vector"
Central Virginia	
Hampton Roads	
Richmond	
Virginia Mountain	
Washington	"Bulletin"

Table 1 - REPORT OF TECHNICAL ACTIVITIES
GROUPS AND RELATED ACTIVITIES

1. Planning initiated early in 1964 led to the establishment of a Technical Activities Board (TAB), effective January 1, 1965. The TAB assumed the responsibilities and functions formerly residing with the Groups Committee and Technical Operations Committee. TAB membership consists of its Chairman and Vice-Chairman, eight members-at-large, the Chairman of each IEEE General Committee and Group, liaison or ad hoc appointments by the TAB Chairman, and a Staff Secretary. Because of the large size of TAB, an Operating Committee was established consisting of only the officers and members-at-large to carry forward TAB work in the intervals between TAB meetings. Accordingly, in 1965 TAB met four times: February 2, May 5, August 23-24, and November 16. The Operating Committee (OpCom) met on February 3, March 12, April 9, May 4, June 10, July 8, August 23, September 29, November 15, and December 15.

2. In the absence of precedents, TAB had many problems in 1965, the answers to which will apply with minor modifications in future years. For each major problem a task force was established by the TAB Chairman as follows:

65-A. To draft rules and procedures for TAB and OpCom, including a plan for the nomination and appointment of the non-elective memberships on TAB. Procedures and schedules were developed and will provide guidelines for 1966.

65-B. To respond to a request by the Executive Committee for a review and evaluation of the roles, missions, accomplishments, and plans of the General Committees and Groups. A study was completed that revealed some intra-Group and Committee problems that will require attention during 1966; the study also showed ways to improve the reporting procedures of the Committees and Groups.

65-C. To examine the problems, real or imagined, that seemed to hinder the merger of Groups and Technical Committees (Standards). Encouraged thus by TAB, mergers were completed in 1965. The Executive Committee at its August meeting set December 31, 1966 as the deadline for the completion of such mergers.

65-D. To resolve differences appearing among several Groups having interests in systems. A recommendation was implemented by TAB to establish a Systems Council similar to the Communications Council established by the Groups Committee in 1964. A Council acts, essentially, as a Subcommittee of TAB to provide better coordination among the Committees and Groups having close technical interests.

65-E. To determine a basis for selection of IEEE representatives to an outside activity when one Group (or Committee) has a primary interest but others have secondary interests. The concept of "lead" Groups evolved and has been applied to the representations in the automatic control and computer areas.

65-F. A case, parallel to that responsible for 65-E and solved by the same method.

65-G. To review objectives and trends of the Technical Program for the IEEE Convention and to recommend how the program might be improved. The report recommended establishment of a continuing Technical Program Committee in order to obtain some continuity in plans and policies from one Convention to the next. Responding to the trend away from contributed papers, more emphasis will be placed on special sessions.

65-H. To review the financial structure of the Groups. At year end, the task force report is before TAB for final review and approval. Meanwhile, several recommendations have gone forward, such as the establishment of a uniform administrative year for Groups, Sections, and other IEEE entities, and the adoption of a single billing procedure.

65-I. To examine the Group member/nonmember ratio for all IEEE, and related recruitment problems, and to recommend means of improvement. At year end, this task force report is before TAB for final review and approval. However, some recommendations have gone forward; for example, steps to simplify the application form for IEEE and Group membership, increase support to Sections proportional to the number of Group Chapter members in the Section, coordination of membership recruitment efforts of Groups, Chapters, and the IEEE, Group promotion at all Conferences, and better use of conference registration lists.

65-J. To examine the quality, timeliness, and support for the Group TRANSACTIONS. This task force was established jointly with the Publications Board. The initial report indicated a need for clarification of the relationships between the Publications Board and TAB. The assignment was therefore revised. At year end, basic policy questions are under review and a new draft is anticipated early in 1966.

65-K. To examine the existing awards sponsored or administered by Groups and to recommend how to improve the Group award structure. This task force was established jointly with the Awards Board. Its report provided for review and approval

procedures for the establishment of new awards and placed responsibility with the Awards Board to maintain a current listing of all awards. The limit of a single Group award was increased to \$500, the limit for a Section award.

65-L. To examine the present pattern of technical meetings and to establish criteria either for the continuation of an existing series of meetings or for the approval of a new meeting. This task force has not completed its report.

65-M. To review IEEE activities in the technical area usually identified as radio science and to propose ways to improve the IEEE programs. This work has not been completed.

65-N. To review policies and practices pertaining to financial assistance for over seas participants in conferences held overseas. Subsequently, the assignment was redefined as "Influence of Non-National Policies on IEEE Activities for which TAB is Responsible." This work has not been completed.

65-O. To respond to an Executive Committee request to provide unified bylaws for all the General Committees. This has led to a study of the roles and missions of the General Committees and of their relationship to each other and to the Groups. This study is continuing.

3. In addition to the above undertakings, TAB has joined with the Publications Board in a study of conference publication practices. TAB has worked with the Intersociety Relations Committee in developing a list of representatives or appointments to outside organizations and in clarifying the TAB responsibilities with respect to these positions. An ad hoc committee, established by the Executive Committee to review the IEEE position with respect to new technologies, submitted a report that bears directly on the activities of several TAB entities, particularly the Group on Education, the Group on Engineering in Medicine and Biology, and the General Committee on New Technical Activities.
4. Apart from the special studies enumerated above, TAB has carefully monitored Group memberships and publication and conference activities. Group members account for about one-third of all IEEE members. Group members appear to write more papers, attend more conferences, subscribe to more special publications, and otherwise receive a fuller measure of the benefits of IEEE membership. TAB is turning its attention to the non-Group member of IEEE. Apart from recruitment for Group membership, ways are being sought to improve the technical participation of non-Group members. At the close of 1965, it appears that Group membership

has increased since 1964. Because of changes in IEEE Headquarters record-keeping facilities and procedures during 1965, uniform reports on a routine basis will now be available and future comparisons of membership changes will have greater significance. A consolidated tabulation of publications, conferences, and Chapter activities appears elsewhere.

5. The Joint Technical Advisory Committee (JTAC). The Joint Technical Advisory Committee, sponsored by IEEE and EIA (Electronics Industries Association), held five meetings during 1965. Five JTAC Subcommittees were active during the year, the Subcommittee on Future Needs and Uses of the Spectrum (65. 1) having been established in September 1965.

Radio Spectrum Utilization - Subcommittee 62. 1. Under the chairmanship of Philip F. Siling, the JTAC volume Radio Spectrum Utilization was completed in late 1964 and released in early 1965. The 272-page book classically views the spectrum as a natural resource. The book has been widely and favorably reviewed and acclaimed. The Preface and Chapter 1 have been included as part of the United States Congressional Record in connection with the appointment by the President of the United States of Mr. James D. O'Connell (JTAC's chairman during the preparation of this publication) as Director of Telecommunications Management.

Electromagnetic Compatibility - Subcommittee 63. 1. Since 1961 the Joint Technical Advisory Committee has urged the stimulation of interest of engineers associated with nonmilitary technology in the increasing technical and economic problems arising from electromagnetic compatibility of equipment. In November 1963, the JTAC established a Subcommittee on Electromagnetic Compatibility, under the chairmanship of Mr. Richard P. Gifford, to undertake a study of needed technical areas and to formulate objectives for dealing with this subject.

Acting Special Assistant to the President for Telecommunications, Dr. Jerome B. Wiesner, in December 1963 requested the Subcommittee to explore this technical area. Because of the immense scope of the problem, the Subcommittee considered it best to submit a Progress Report to the Director of Telecommunications Management as an interim measure in order to keep him advised of the organizational work. Approved by JTAC on March 26, 1965, the Subcommittee's Progress Report, "Electromagnetic Compatibility - A Challenge in Natural Resource Utilization Requiring National Technical Guidance and Direction," was submitted to the Director of Telecommunications Management, Mr. James D. O'Connell, on May 5, 1965. Because the report is a guide for the main study ahead, circulation was restricted.

Microwave Radio Relay System Reliability - Subcommittee 63.2. FCC Docket No. 15130, adopted July 24, 1963, referred to the 1960 JTAC report submitted at the Commission's request. In this report JTAC had recommended FCC adoption of a policy permitting the use of frequency diversity in all cases except where local interference would result. In addition, the JTAC had recommended that a carrier frequency separation of at least 5 to 10 percent should be maintained to realize the full benefits of the plan. The Docket further stated that although JTAC provided the Commission with pertinent analysis and commentary of the relative merits of diversity techniques, the Commission still lacked sufficient data to submit a considered judgment of this method of achieving reliability at the cost of spectrum space and requested a JTAC reply to Docket No. 15130.

In November 1963, JTAC established its Subcommittee on Microwave Radio Relay System Reliability under the chairmanship of Dr. William H. Radford to reply to Docket No. 15130. Assisted by qualified engineers represented from the user group, equipment manufacturers, and research areas, Dr. Radford had the Subcommittee's report ready for JTAC approval on March 26, 1965. On April 15, 1965, the JTAC submitted to the FCC its report "Microwave Radio Relay System Reliability." In this report the Subcommittee described a wide range of methods for specifying transmission path reliability requirements in relation to the service to be rendered, and concluded that the CCIR recommendations for long-distance microwave circuits should be adopted as the norm. The Subcommittee further recommended that a measurement program be sponsored by the Government to determine the relative merits of frequency and space diversity, and the physical and climatic conditions under which each proves to be superior, in terms of impact or reliability and spectrum utilization. It was specifically suggested that the measurement program should contain a complete set of instructions to be supervised by the National Bureau of Standards.

In a letter to Dr. Robert White of the Environmental Science Services Administration of the United States Department of Commerce on October 19, 1965, FCC Chairman E. William Henry advised that on October 13 the Commission approved JTAC's recommendation of the establishment of a measurement program as recommended above. As the study will be largely one of radio wave propagation, Chairman Henry advised that it be supervised (under the budgeting of ESSA) by the Central Radio Propagation Laboratories, Boulder, "with guidance from a committee composed of selected individuals from CRPL, FCC, Common Carrier entities such as AT&T or Western Union, a private

microwave user group and interested government users."

Mobile Radio Services - Subcommittee 64.1. The FCC adopted Docket No. 15398 on March 26, 1964, which terminated its inquiry into the allocation of frequencies between 25 and 890 MHz. The Docket inquired into the optimum frequency spacing between assigned frequencies in the land mobile services and the feasibility of frequency sharing of television and the land mobile services. The FCC was "hopeful that technical groups such as the Joint Technical Advisory Committee (JTAC) and EIA will respond." The JTAC considered this Docket and resolved "that...while the entire Section 4 has been called to JTAC's attention, Section 4D should have priority." To this end, in May 1964, JTAC established its Subcommittee on Mobile Radio Services under the chairmanship of Dr. John A. Pierce.

In order to submit as comprehensive a report as possible, the JTAC considered the interests of both Television broadcasters and the Land Mobile Services. In addition, it further considered that a study confined to channel sharing within the VHF band only would be of limited value, and counseled the FCC on the advisability of conducting a study throughout the entire allocated spectrum, both UHF and VHF (Channels 2-83). The Subcommittee's report "Mobile Radio Services," approved by JTAC on March 26 was submitted to the FCC on April 29, 1965. In this report, the JTAC emphasized the need for the establishment of a system of field testing.

This Subcommittee is also involved in the study at present being conducted by the FCC Land Mobile Advisory Committee (LMAC) established by FCC Public Notice G 48884 on March 26, 1964, under the chairmanship of FCC Commissioner Kenneth A. Cox. The Executive Committee of the LMAC held several meetings at which the vast material accumulated on this subject by the LMAC Standing Committees, assisted by their Task Groups, were discussed. At the suggestion of the JTAC Secretary, Mr. L. G. Cumming, that the problems facing this Committee be publicized by the Chairman in order to arouse the interest of industry, Commissioner Cox published an article titled "The Land Mobile Radio Services - The tremendous growth in land mobile radio has created serious congestion since less than five percent of the suitable spectrum space has been allocated for land mobile use," in the October 1965 IEEE SPECTRUM. Commissioner Cox further brought attention to these problems in his address titled "Private Systems, Common Carriers, and Overall Frequency Management," at the IEEE G-VC Conference held early December 1965.

Future Needs and Uses of the Spectrum - Subcommittee 65.1. Within the confines of the JTAC Subcommittee on Electromagnetic Compatibility (63.1), a Subgroup on "Future Demands on the Radio Spectrum" was established. Mr. Gifford considered that the work being carried out by this Subgroup is far-reaching and beyond the broadest areas of Subcommittee 63.1. Therefore, he advised that the Subgroup be elevated to full JTAC Subcommittee status. JTAC considered this recommendation, and in September 1965 established a Subcommittee (65.1) on Future Needs and Uses of the Spectrum under the chairmanship of Mr. David R. Hull.

6. International Radio Consultative Committee (CCIR). The Executive Committee of the U. S. National CCIR organization held several meetings during 1965 at which the Chairmen of the Study Groups submitted progress reports. The International Study Groups of the CCIR met individually, some jointly, in various parts of Europe during 1965 to discuss their own Group's submissions to the ITU Plenipotentiary Conference which was held in Montreux, Switzerland, September through December 1965. In the latter part of 1965, a great amount of work was done preparing the U. S. contributions for the XI Plenary Assembly to be held in Oslo, Norway, June 1966.
7. NAS Committee on Radio Frequency Requirements for Scientific Research. The NAS Committee on Radio Frequency Requirements for Scientific Research, through its Subcommittee on Radio Astronomy gives particular attention to the radio frequency requirements for this branch of science.

In February 1965, the Committee noted that commercially operated and distributed garage door openers sometimes operate on frequencies designated for radio astronomy. The Committee requested the FCC to amend its Rules and Regulations specifically to prohibit the operation of such unlicensed devices on frequency bands reserved for radio astronomy and similar research purposes.

At the request of the Office of Telecommunications, Department of State, the Committee drafted some of the material that was required for the preparation of U. S. documents to be submitted for the XI CCIR Plenary Assembly. A meeting of the Inter-Union Commission on Frequency Allocations for Radio Astronomy and Space Science (IUCAF) held in Rome, December 1965, provided an opportunity to coordinate these reports with scientists of other countries in advance of the formal distribution by CCIR, Geneva, to the national administrations.

8. Intersociety Relations Committee. The Intersociety Relations Committee met five times during 1965. On recommendation by the ISRC, the IEEE appointed more than 50 representatives to 18 organizations during 1965.

One of the ISRC's major efforts is the continuing evaluation of IEEE participation in the activities of outside organizations. A great deal of progress has been made. A study aimed at developing meaningful guidelines for such evaluation was started in the latter part of 1964 and has continued to the present. The study is expected to be completed during 1966. As an outgrowth of this continuing study, a method of appointing IEEE representatives to outside organizations was formulated and adopted during 1965. Included in this newly adopted method is a delineation of the TAB responsibility for appointment of representatives.

During 1965 the ISRC also appointed one of its members as a Monitor of Technical Appointments of representatives to outside organizations to provide an expeditious channel of communication between the ISRC and TAB.

A preliminary master list of organizations with which IEEE participates was drawn up and should be completed by the spring of 1966.

Also during 1965, the ISRC established a Subcommittee on Cultural and Scientific Exchanges between the U. S. and the Soviet and Eastern European nations. This new subcommittee will attempt to ensure that proper and effective channels of communication are maintained between the delegates of IEEE and Scientific and Technical Societies existing within the Eastern and Soviet bloc nations. A specific task, in particular, involves making appropriate arrangements with the Popov Society.

A study is presently under way in ISRC to determine the feasibility of establishing an electrical and electronics advisory board to the NAS/NRC Division of Engineering and Industrial Technology, which would be comprised of IEEE members, representing the breadth of its technology, as well as men from other sources.

A subcommittee was formed during 1965 by ISRC to study the activities of the various agencies in the Executive and Congressional branches of government, active in the area of science and technology, to ascertain their interrelationships with IEEE.

In cooperation with the Education Committee, the ISRC coordinated IEEE approval of amendments to the Constitution and Rules of Procedure of the Engineers' Council for Professional Development.

The ISRC's Subcommittee on Communications with Outside Organizations submitted its report to the Executive Committee with a number of recommendations which will be implemented in the future.

SECTION C

Table 2 - IEEE Group Membership, December 31, 1965; 3-year Comparison

Group No.	Group Name	1965					1964	1963
		Student Discount	Students Regular	Other Members	1965 Total	1964 Total	1963 Total	
1	Audio and Electroacoustics	150	317	3,763	4,230	4,054	4,308	
2	Broadcasting	93	53	1,446	1,592	1,492	1,474	
3	Antennas and Propagation	472	41	3,743	4,256	3,864	4,096	
4	Circuit Theory	615	352	5,669	6,636	6,085	7,047	
5	Nuclear Science	88	96	1,755	1,939	1,761	1,706	
6	Vehicular Communications	25	28	1,652	1,705	1,579	1,577	
7	Reliability	26	30	2,375	2,431	2,264	2,286	
8	Broadcast and Television Receivers	154	57	1,624	1,835	1,770	1,760	
9	Instrumentation and Measurement	92	142	4,254	4,488	4,143	4,067	
*10	Aerospace and Electronic Systems	574	219	9,604	10,397	13,415	14,106	
12	Information Theory	232	118	3,681	4,031	3,896	3,900	
13	Industrial Electronics and Control Instrumentation	116	176	2,767	3,059	2,655	1,927	
14	Engineering Management	212	98	5,143	5,453	5,449	4,847	
(1)15	Electron Devices	713	103	4,742	5,558	4,852	5,269	
16	Computer	1,017	373	8,609	9,999	9,254	9,745	
(2)17	Microwave Theory and Techniques	238	198	5,091	5,527	5,290	5,871	
18	Engineering in Medicine and Biology	419	119	2,979	3,517	3,163	3,005	
19	Communication Technology	443	171	5,834	6,448	5,392	4,832	
20	Sonics and Ultrasonics	29	34	1,076	1,139	1,064	956	
**21	Parts, Materials and Packaging	28	43	2,667	2,738	3,362	3,319	
23	Automatic Control	855	75	4,259	5,189	4,608	4,472	
25	Education	23	31	1,314	1,368	1,238	1,075	
26	Engineering Writing and Speech	47	73	1,800	1,920	1,737	1,737	
27	Electromagnetic Compatibility	6	30	1,602	1,638	1,424	1,379	
28	Human Factors in Electronics	19	31	738	788	719	795	
29	Geoscience Electronics	24	32	1,222	1,278	1,168	800	
31	Power	555	61	8,775	9,391	7,108	--	
32	Electrical Insulation	8	8	835	851	645	--	
33	Magnetics	42	16	1,376	1,434	193	--	
34	Industry and General Applications	79	26	2,504	2,609	913	--	
35	Systems Science and Cybernetics	63	93	1,368	1,524	--	--	
		<u>7,457</u>	<u>3,244</u>	<u>104,267</u>	<u>114,968</u>	<u>104,557</u>	<u>96,356</u>	
(1)	Quantum Electronics	69	60	1,109	1,238			
(2)	Quantum Electronics	25	37	546	608			
		<u>94</u>	<u>97</u>	<u>1,655</u>	<u>1,846</u>			

*G-10 represents a merger of the following Groups on July 1, 1965:

- G-10 - Space Electronics and Telemetry
- G-11 - Aerospace and Navigational Electronics
- G-24 - Military Electronics
- G-30 - Aerospace

**G-21 represents a merger of the following Groups on July 1, 1965:

- G-21 - Component Parts
- G-22 - Product Engineering and Production

7,466, or 30%, of the Student members are enrolled in Groups.
 50,483, or 39%, of members other than Students are enrolled in Groups.
 57,949

SECTION C

Table 3 - IEEE Group Affiliates, December 31, 1965; 3-year Comparison

Group No.	Group Name	12/31/65	12/31/64	12/31/63
1	Audio and Electroacoustics	2	4	5
2	Broadcasting	-	-	-
3	Antennas and Propagation	3	6	5
4	Circuit Theory	1	3	2
5	Nuclear Science	55	118	95
6	Vehicular Communications	-	1	1
7	Reliability	19	71	58
8	Broadcast and Television Receivers	-	-	8
9	Instrumentation and Measurement	1	2	3
*10	Aerospace and Electronic Systems	8	11	9
12	Information Theory	22	52	27
13	Industrial Electronics and Control Instrumentation	-	-	-
14	Engineering Management	31	80	59
(1)15	Electron Devices	69	12	10
16	Computer	68	192	154
(2)17	Microwave Theory and Techniques	5	8	6
18	Engineering in Medicine and Biology	76	369	286
19	Communication Technology	1	1	1
20	Sonics and Ultrasonics	8	11	3
**21	Parts, Materials and Packaging	4	11	11
23	Automatic Control	2	14	13
25	Education	-	10	6
26	Engineering Writing and Speech	15	40	36
27	Electromagnetic Compatibility	-	10	9
28	Human Factors in Electronics	7	24	21
29	Geoscience Electronics	2	6	5
31	Power	1	1	-
32	Electrical Insulation	16	14	-
33	Magnetics	84	-	-
34	Industry and General Applications	-	-	-
35	Systems Science and Cybernetics	10	-	-
		<u>510</u>	<u>1,071</u>	<u>833</u>
(1)	Quantum Electronics	63		
(2)	Quantum Electronics	<u>2</u>		
		65		

*G-10 represents a merger of the following Groups on July 1, 1965:

- G-10 - Space Electronics and Telemetry
- G-11 - Aerospace and Navigational Electronics
- G-24 - Military Electronics
- G-30 - Aerospace

**G-21 represents a merger of the following Groups on July 1, 1965:

- G-21 - Component Parts
- G-22 - Product Engineering and Production.

TABLE 4 - 1965 IEEE GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

REGION 1

Section	Total Affiliates	Total Group Members	Com																														
			Au G-1	BC G-2	AP G-3	CT G-4	NS G-5	VC 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	Tech G-19	SU G-20	FMP G-21	AC G-23	E G-25	EWS G-26	BMC G-27	HFE G-28	GE G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35
Berkshire	1	205	5		2	16	3		4	3	7	11	2	5	11	12	17		2	3	2	14	9	1	4	7		1	42	9	6	3	4
Binghamton	2	504	14	6	8	31	3	3	38	5	12	45	14	8	29	25	122	9	10	9	2	14	31	3	6	13	2	1	20	2	11	2	6
Boston	32	5714	155	36	253	351	75	37	117	43	260	528	351	117	277	323	609	381	198	304	60	136	239	63	71	50	58	89	272	27	75	69	90
Lynn	1	256	7		5	15	2	1	9	3	15	19	4	9	17	29	21	17	4	13	3	7	12	1	5	3		1	21	4	3	6	
Merrimack Valley		520	23	8	24	52	8	5	14	14	18	42	16	5	30	32	34	58	8	40	2	14	12	7	12	5	2	2	17	1	5	2	8
Buffalo	6	752	17	11	33	39	3	5	14	12	17	80	45	22	32	16	42	39	20	47	5	11	59	2	9	7	8	4	70	11	7	52	13
Connecticut	8	885	38	7	14	41	26	10	17	8	55	48	19	44	35	38	63	20	40	39	16	25	47	13	9	13	3	14	98	14	13	54	4
Fairfield County	7	832	39	19	20	48	14	9	19	15	38	56	20	32	48	55	78	31	27	45	20	28	27	12	17	15	10	10	37	4	14	18	7
New London	1	199	13	1	10	11	10	2	2	1	6	12	14	2	14	7	13	1	3	8	6	3	17	3	4	3	5	2	12	4	1	5	4
Elmira-Corning	1	116	1	2		3	4	1	2	5	4	6		7	6	25	6	9	3	1	1	9	6		1	2		2	1	3	5	1	
Ithaca	4	163	1	2	8	18	3		2	1	5	4	15	5	4	17	23	5	9	10			9	2		1		1	8	1	2	3	4
Long Island	10	3454	112	35	186	194	50	37	106	44	108	488	153	74	182	118	270	326	109	170	40	98	148	29	53	53	29	32	96	15	19	40	40
Maine		150	7	4	7	5	4	4	1	3	7	10	3	4	7	4	8	8	7	9	2	2	5	1	2			1	26		2	5	2
Mid-Hudson	5	616	21	1	3	37	4	3	14	5	21	9	16	7	27	71	214	5	8	13	3	29	9	6	9	1	1	4	30	1	27	2	15
Catskill	1	154	8	2		5	1		2	3	2	1	3	4	7	4	51	4	3	9		8	4	1	3	10	1		6	1	7	1	3
Mohawk Valley		382	8	4	23	19	7	2	18	6	6	52	15	4	36	9	36	21	4	30	1	9	13	4	10	22	1	2	10	1	1	3	5
St.Lawrence Internat'l	1	40	0			2	1		1			2	1	1	4	2	2	2		1	2		5	4				1	8		1		
New Hampshire	1	383	11		36	29	1	5	5	4	26	46	11	8	21	12	14	38	10	28	6	9	6	5	6	5	2	4	21	5	3	3	3
New Jersey Coast	4	1251	36	15	56	66	21	27	28	20	33	90	62	22	50	69	170	71	32	156	18	39	31	18	38	28	6	3	13	4	12	3	14
New York	26	4096	176	75	130	276	67	40	72	89	132	287	169	92	153	181	385	205	191	316	54	90	157	47	83	61	36	40	235	37	29	74	67
Westchester	8	1171	54	27	24	61	15	20	22	22	48	78	39	35	74	44	161	40	49	69	16	37	47	12	20	9	8	12	64	7	18	22	17
North Jersey	16	4109	135	40	120	267	40	62	84	79	164	342	140	147	166	216	297	247	97	377	32	116	163	33	73	51	35	27	299	44	73	89	54
Princeton	9	996	30	10	23	62	19	10	17	28	38	71	43	19	36	114	103	51	19	46	11	33	42	9	19	5	3	9	46	9	37	19	15
Providence	1	306	9	3	10	17	4	4	7	4	16	24	17	11	9	17	13	11	6	13	15	12	17	3	6	4	7	6	24	6	3	4	4
Southeastern Mass.		111	4		1	8	2	2	3		11	7	1	8	4	3	5		2	3	2	7	2	3	4	3	1	5	10	3	2	5	
Rochester	5	658	31	6	13	38	11	13	15	14	28	46	26	24	36	30	61	15	38	57	11	25	17	6	14	6	4	5	38	3	8	12	7
Schenectady	1	680	10	9	13	21	19	6	4	6	20	20	19	25	19	50	36	40	17	12	5	11	43	10	5	10	1	6	142	17	14	54	16
Adirondack		92	3	1	1	4	3	1	2		5	4	4	3	4	4	3	1	3	6		3	5	1	1		1	1	17	2	2	7	
Springfield		108	5	5	2	6	1	1		8	2	6	1	1	5	5	12	4	4			2	4	4	1	1			16	4	2	5	1
Syracuse	1	1014	31	17	60	76	6	9	25	30	20	111	73	9	53	93	75	74	18	40	7	29	28	19	15	5	3	3	43	1	3	23	15
Vermont		94	1	1	1	5		1	4	1	6	3	1	3	4	5	8	1	15	2	4		3	4	1				12		6	1	1
Worcester County	1	195	9	4	2	14	2	2	2	2	9	8	5	6	9	14	19	10	6	7	2	3	8	7	6	2	1	1	26	1	3	3	2
Totals	153	30206	1014	351	1088	1837	429	322	670	478	1139	2556	1302	763	1409	1644	2971	1744	962	1883	348	823	1225	333	507	395	228	287	1831	239	412	594	422

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SECTION C

TABLE 4 - 1965 IEEE GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

REGION 2

Section	Total Affiliates	Total Group Members	By Group																															
			Au G-1	BC G-2	AP G-3	CT G-4	NS G-5	VC G-6	H G-7	STR G-8	IM G-9	AES G-10	IT G-12	IECI G-13	EM G-14	ED G-15	C G-16	NTT G-17	EMB G-18	Com Tech G-19	SU G-20	PMF G-21	AC G-23	E G-25	EWS G-26	EMC G-27	HFE G-28	GE G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35	
Akron	1	263	7	6	19	9	1	3	1	2	7	12	4	14	7	5	28	12	3	7	1	2	16		1	1	1	2	56	4	1	28	3	
Baltimore	2	1507	37	18	67	87	16	15	33	21	38	217	71	17	85	60	98	104	39	95	9	29	57	9	16	28	5	10	132	4	18	55	17	
Annapolis		296	10	1	14	20	1	4	9	4	5	53	7	2	24	15	17	20	2	12	1	3	12	4	11	11	2	5	11	1	5	7	3	
Eastern Shore		24	0	1				1		1		4		1	1	2	2			2	1				2				4			2		
Canton	1	75	2		1	2		4		1	4	1	2	5	3	1	3	1	1	1		1	4		1	2			29	2		4		
Central Penna.	1	359	12	4	25	19	4	6	3	5	9	38	28	6	16	13	29	20	14	21	9	3	12	8	6	9	3	5	13	2	2	4	10	
Cincinnati	2	423	35	11	8	20	11	7	4	6	13	21	9	22	15	12	20	9	18	20	3	8	24	6	5	2	2		84	5	3	17	3	
Cleveland	5	1066	45	28	18	58	33	21	16	14	54	46	16	70	43	40	66	24	51	32	17	21	67	14	18	8	4	7	122	16	12	71	14	
Columbus	2	786	24	6	69	34	14	8	13	5	26	66	29	32	34	46	58	51	25	54	9	11	51	8	10	6	2	7	41	1	12	18	16	
Cambridge		0																																
Chillicothe		5									1									1											3			
Zanesville		14			1					1					4							1							5					
Dayton	7	848	32	5	26	28	13	5	30	8	35	123	26	17	113	34	81	19	29	28	6	36	43	5	11	16	10	6	31	6	6	10	10	
Delaware Bay	1	142	8	1	3	5		1	1		6	9	4	7	5	9	12	1	5	5	1	4	7	1		1	1		20	9	2	11	3	
Emporium-Ridgway	1	55	0	2			1	1	3	3	2	1		1	3	6	1	1		1	3	12	1						5		5	3		
Erie	2	104	3	1	1	4		2	1		1	12		4	5	2		1	4	6	4	4	8		1	2			13	2	3	20		
Johnstown		62	0	2	4	4	1			1		3	1	2	2	3	1	2	1	1		1	2		1				22	1		7		
Lehigh Valley	6	456	14	4	4	19	4	7	9	9	19	11	3	18	11	72	20	27	10	12	14	14	10	3	8	2	1	4	88	4	15	20		
Lima		85	1	1	1	4	1	2	1		1	31		7	6	3	2		3				2	1	2	1			7		2	5	1	
North Central Ohio		77	5		3			1	1	3	4	1	3	1	2	6	1			8	1	2	2	2	4	1	1		17		3	4		
Ohio Valley		11		1			1	1		1		1		1											1					2		2		
Scioto		3																													3			
Philadelphia	17	4580	159	75	127	259	55	55	120	78	164	487	181	104	220	164	494	157	152	298	38	161	179	54	81	77	32	31	289	33	70	111	75	
Pittsburgh	9	1265	30	23	12	60	44	18	19	16	45	31	25	65	52	70	88	11	33	40	9	15	80	18	14	9	6	7	257	26	36	82	24	
Upper Monongahela		1	1	1	1	2		1			1	1		2	1	1	5	2	1	3				1	2				6	1		3		
Sharon		144	5	4		4	2	1	2	2	2	1	11	7	1	7	1		4		3	9	2	2				1	45	5	6	16	1	
Southern New Jersey		79	4		5	5		2	3	2	5	14	1	1	9		8	1	2	5		2	1	0	2	1	1		2			1	2	
Susquehanna		230	7	6	12	10	9	6	12	9	8	14	4	5	10	22	10	16	6	9	5	11	3	1	8	2		1	12		6	4	2	
Washington	32	5638	179	96	327	267	90	91	120	56	228	804	281	60	372	208	480	271	149	511	55	77	115	46	104	156	50	89	161	17	45	33	100	
West Virginia		66	3	3	6	2	1	3		3				8	2		3	4		3	1	2	3	1	1	1	1	1	7		1	5	1	
Totals		90	13698	623	300	750	926	302	266	402	245	681	2004	694	1435	1051	791	1539	756	549	1179	187	123	708	184	312	336	122	176	1185	141	253	543	285

SECTION C

REGION 3

TABLE 4 - 1965 IEEE GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

Section	Total Affil- ates	Total Group Members	Au G-1	BC G-2	AP G-3	CT G-4	NS G-5	VC G-6	R G-7	BTR G-8	IM G-9	ARS G-10	IT G-12	IRL G-13	IL G-14	ED G-15	C G-16	MTT G-17	EMR G-18	Com Tech G-19	SU G-20	IMP G-21	AC G-23	E G-25	EMS G-26	EMC G-27	HFE G-28	GE G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35		
Alabama	2	193	2	1	9	12	1	0	2	2	6	8	2	6	5	6	6	9	5	12		1	15	7	1	1	2	1	65				6		
Atlanta	1	509	26	15	20	28	3	11	3	10	15	47	12	12	19	7	28	22	17	61	4	6	14	6	9	15		2	68	2	5	18	4		
Rome		14																						1					9	3		1			
Baton Rouge	1	64	3		1	3	1				4	2	2	1	6	3	1	2	2	4			3	3	1			1	10			11			
Lafayette		12				1		1										1	1	1								4	1		2				
Canaveral	1	539	14	2	30	16	2	4	27	0	30	152	16	7	32	11	57	17	13	33	2	5	10	3	10	13	2	7	15	1	1	1	6		
Central No. Carolina		72	3	1	2	8	1	1	3		4	9	2		4	2	4	12	1	2	1			1	3			3		2	3				
Central Virginia		310	13	4	8	18	2	37	7	4	8	22	4	12	14	14	16	12	8	28	3	11	10	4	7	9	1	5	14	1	1	12	1		
Charlotte		114	7	3	1	3	1	0	1		3	7	1	2	4	2	4	3	4	10		2	4	1	3	1	1	1	1	34	5		6		
Chattanooga	1	102	1	3	2	2		3	1		3	2	1	3		2				6		1	1		3			62	2		4				
Daytona		148	1		2	7	1		14		4	23	3	6	11	0	23	4	3	7	0	4	12	1	0	6	2	1	6	1	0	0	6		
Eastern No. Carolina	1	357	11	9	14	20	4	5	7	7	9	22	10	7	8	26	34	18	17	33		9	17	7	8	1	2	2	24	3	15	4	4		
East Tennessee		137	4	2	5	6	5	2			3	10	2	4	5	6	4	1	2	6	1	1	16	2	1			45	1		2				
Upper E. Tennessee		33	3		2	3		1	1	2	3	2	0	2		2		1					3					3	2		3				
Evansville-Owensboro		89	4	2	3	4	3	1	5	7	2			6	8	7	3	6		2		6	4	1	4			8			2	1			
Paducah		23	2		1	1		1			2			1	1	2		1	1	1	1	1	1				1	6							
Florida West Coast	1	516	12	10	8	28	6	14	21	3	14	58	8	9	35	17	30	47	8	27	5	11	15	6	7	15	4	8	66	4	6	10	4		
Fort Walton		33	2			1			1	1	2	8	2		3	2	1	2		2			1	1	2	1		1							
Gainesville		179	7	1	7	11	1		3		8	12	8	1	6	27	18	13	12	6		1	17	7	1	1			6			5			
Hampton Roads	3	202	8	4	8	10	8	1	8	2	13	39	5	5	8	5	8	7	5	9	2	3	6	5	9	2	1	2	10		2	6	1		
Huntsville	4	622	19	4	26	28	9	5	36	1	44	119	12	6	42	18	59	27	5	20	2	14	62	2	11	21	2	4	9	2	1	4	8		
Muscle Shoals		1																															1		
Jacksonville		31				1		3				2		1	1			1	1	1			2		3			10	1	1	2	1			
Lexington		95	8			5	2		3	1	2	2	2	2	4	5	14	1	6	9		5	2	2	1	3		1	8	1	1	5	0		
Louisville		87	1	4	3	5		3	1		1	2		6	6	2	3	3	2	7		1	7	1	2	2	2	13		3	7	0			
Memphis	5	104	2	1	1	3	1	1	1	1	2	4	1	1	1	1	1	3	12	3		8	3	1			49	1		2					
Jackson		18			1		2				1			2	1	1	2		1	2								5							
Miami		251	15	8	6	10	2	8	5	7	11	26	2	7	8	4	21	4	10	10	4	5	4	5	5	2	1	7	50	2		2			
Middle Tennessee		51				1			1		5	22	1	1	2				1	2	1		2		1			11							
Mississippi		44	4	2		2			1		3	1	1	1	1	1	1		4	4		1		1	1		1	12			2				
Northeast Mississippi		33	1		3	3	1							1	2	5	1	2					7	2	1			3				1			
Mobile		17	1				1					1		2	1			1		1	1		1	1			4				2				
Nashville		135	6	5	3	8	1	1	1	1	3	8	3	2	1	3	11	11	9	11	2	3	13	1	2		2	17		2	3	2			
New Orleans	2	329	10	5	13	11	4	6	6	6	18	31	6	11	16	3	18	8	10	14	1	2	10	3	3	14	1	5	80	1		9	4		
Oak Ridge		55	2			2	23				3	5		3	2	2	2	1					1		2			6				1			
Orlando	1	392	12	2	17	25	7	6	9	5	17	69	26	7	20	12	21	33	7	42	4	7	14		8	5		2	9	3		3			
Palm Beach	1	113	4	1	2	5	3	1	3		7	5	2	6	2	5	14	1	3	6	2	4	4	4	2	4	1	4	11	1	4	1	1		
Panama City		49	3	2	5	1		1	1	1	3	6	1		2	1	2	2		3	7		2	1	1		1	1		1	1		1		
Pensacola		24	3	2		2					2	2		1	1			2	2	1			1		1		1	2					1		
Richmond		114	4	1	3	1	2	3		1	7	4		4	8	1	11	1	1	7	2		2	2	3	4	1	2	29	1		9			
Savannah		14		1			1					1		1	1	2		1	1						1			4							
South Carolina:																																			
Central Savannah River		15					1	1			1	1		2	1	1				1	1							4		1					
Charleston		60	2	1		2			3	1	5	13	1	1	1	1	4	1	2	1	1	3	5		1	2		7	1	1					
Columbia		68	1	2	3	2		5		1	3	3	2	1	8	3	4	2	2	9		5	2	2	1		6					1			
Piedmont		57	1	1		3	2	1		1	3	5		4	3	3	1	1	2	3		1	3	1		1	3	7	1		5	1			
Virginia Mountain		139	5	4	4	7	2	1			4	8	1	11	7	8	8	8	6	3		1	12	4	1		1	18	3		0	3			
Western No. Carolina		27	1	2		1	1	3			1	1		1	1	1	1	1	1	1		1						6				2	1		
Winston-Salem		94	5	5	3	10	0	0	1	1	4	10	0	2	0	3	5	7	12	2	3	3	1	1	3	1	0	1	1	0	8	1	1		
Totals	24	6687	233	110	216	320	101	133	177	66	281	776	139	170	311	220	449	297	201	414	90	118	312	93	124	124	29	62	841	41	58	160	59		

SECTION C

TABLE 4 - 1965 IREE GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

REGION 4

Section	Total Affil- iates	Total Group Members	Au G-1	HC G-2	AP G-3	CT G-4	NS G-5	VC 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	HFE G-28	GE G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35		
Arrowhead		33		1								1	1	4	3		3		1															7	2
Cedar Rapids		321	12	4	13	29	2	3	13	2	10	31	9	6	25	7	42	15	18	20	0	6	13	6	9	3	2	0	16	0	1	2	2		
Central Illinois	8	448	19	4	39	35	5	4	4	5	7	18	20	4	18	24	48	27	11	16	3	6	30	19	2	2	3	4	48	1	7	11	4		
Central Indiana	5	674	36	6	15	43	2	7	7	33	19	45	29	15	31	34	39	18	33	34	1	15	65	18	5	4	5	1	63	4	16	19	12		
Bloomington	1	39	5	1		3		2		4	3	2		1	3		2	1	1	1		2							6	1	1				
Central Iowa	1	191	10	6	6	12	4	2		7	2	9	5	2	4	6	21	8	13	5	1		12	9	5	2	1		26	1	5	5	2		
Chicago	13	3031	168	30	73	163	64	109	54	156	112	125	64	127	245	90	177	93	92	166	36	84	127	23	48	47	13	13	337	29	40	94	32		
Calumet		72	3	3	3	2		2		1	1	12	1	5	2	2	3	1		7			4		2				10			8			
Fox Valley	2	448	24	5	6	22	22	26	11	17	14	20	5	16	40	21	16	7	12	36	6	7	7	2	5	7	2	1	65	6	7	9	4		
Fort Wayne		222	12	2	3	13	1	3	6	12	6	17	4	10	18	8	8	3	8	12		8	7	2	2	1		2	28	12	6	6	2		
Illinois Valley		52	1			2	1		1		2	1	1	5	4		3	2	2	1			3	1	2			1	10	1		7	1		
Iowa-Illinois		110	2	1	1	4	1	1	2		5	6	3	5	6	3	6	4	1	4	1		2	1	3			38	1	3	6				
Burlington		11			1	1				1					1		1			1			1					2				2			
Madison		311	10	5	10	37	4			7	11	11	13	13	3	20	42	9	12	14	1	3	26	11			4	33	1	2	4	5			
Milwaukee	1	842	27	14	6	46	8	10	20	10	40	44	6	47	48	28	54	24	35	19	5	22	57	13	10	8	2	1	129	15	24	62	8		
Racine-Kenosha		50	2		3		1	2	1	3	1		5	6	3	1						2	5		2			7	2	1	3				
Nebraska		370	13	11	13	16	10	13	3	7	10	17	5	9	13	14	29	5	22	16	4	11	12	6	6	5		2	86	3	2	4	3		
Northeast Michigan		80	2	2	1	3	4	1	1	1	5	4	1	9	1	6	3	1	2	4	1	2	2	1			1	11	4		7				
Northeastern Wisconsin		74	5	2	1	3	1	3		3		2	2	2	3	3	6		1	4	1		6	3	1			15		1	6				
Rock River Valley		144	10	1		7	3	1	1	1	8	6		13	8	6	11	1	3	7	2	6	10		1	2	3	1	18	2	3	9			
Siouxland		38	2	5		1	1	2		2		1		1	1			2	1	4			2	1				12							
South Bend	1	291	32	13	7	19	8	5	4	6	5	22	6	12	17	13	21	10	14	14	1	5	20	5	6	1		1	10		3	7	4		
Southeastern Michigan	10	1989	59	21	85	144	24	42	20	22	66	116	87	61	71	90	193	94	70	78	10	28	113	40	24	14	8	14	257	10	18	83	27		
Southern Minnesota	2	117	4	3		9	1	7	3	5	2		3	2	9	8	19		20	4	1	4	2	1	2	1	1		3		2		1		
Toledo		158	12		3	9	1	1	1	1	8	4	4	15	9	6	9	5	4	6	4	7	10	1	5	1	1		16	3	2	7	3		
Twin Cities	11	1383	54	22	11	89	9	18	31	7	50	93	34	36	75	72	269	16	47	64	10	41	79	16	28	14	9	5	103	12	34	11	24		
Red River Valley		70	3	4	4	2		2	1		1	5	1	1	4	6	6	2	1	2			1	1	2	1		14	1		3	2			
West Michigan	1	114	5	5		5	2	3	2	1	3	7	3	8	6	5	13	2	4	3		1	5	4	2		1	11	3	1	7	2			
Totals	56	11683	532	171	301	722	178	268	187	312	393	620	307	433	674	476	1045	350	428	542	88	260	621	184	172	113	51	51	1384	112	179	389	140		

SECTION C

TABLE 4 - 1965 IEEE GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

REGION 5

Section	Total Affiliates	Total Group Members	Au G-1	BC G-2	AP G-3	CT G-4	NS G-5	VC 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	AMP G-21	AC G-23	E G-25	BWS G-26	BMC G-27	HFE G-28	GE G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35
Arkansas		98	9	3	1	2	2	0	2	3	4	6	0	4	3	2	1	0	3	2	2	1	1	1	0	1	0	1	35	3	1	5	0
Northwest Arkansas		55	3	0	0	3	0	0	0	2	1	4	1	1	2	3	4	1	1	3	0	0	7	4	3	0	0	0	5	1	1	3	2
Beaumont		50	5	5	0	1	0	2	0	1	0	1	0	3	3	1	1	0	0	3	0	0	4	2	2	0	0	1	11	0	0	2	2
Lake Charles		9												2						1			1					3				2	
Central Texas	3	472	26	10	23	29	11	3	5	6	20	30	15	7	10	25	29	10	28	7	7	7	18	10	8	7	2	20	78	2	5	4	10
Corpus-Christi		41	1	0	1	1	0	1	0	1	0	2	0	0	1	2	5	0	2	2	0	1	2	0	2	0	1	1	14	1	0	0	0
Victoria-Pt.Lavaca		8	1								1			1									1					3				1	
Dallas	1	1605	60	22	69	113	17	32	33	22	44	116	56	28	94	99	129	98	35	98	18	31	41	13	28	20	6	63	140	5	14	11	20
Waco		15			1			1			2	2						1	1									1	6				
Denver	3	985	28	21	77	59	15	8	10	11	78	82	24	20	34	32	42	59	44	53	7	10	47	19	15	16	4	13	124	1	10	15	7
Black Hills		32		1	3	5		1		1		3			1	1	3	2	1	1				1				7			1		
Pikes Peak		128	6	4	4	9	3	0	3	3	7	20	3	1	2	7	17	2	4	9	0	2	4	2	0	2	0	1	7	1	0	3	2
El Paso		215	12	3	12	10	6	4	2	3	13	30	7	2	10	8	21	11	4	14	1	1	6	2	11	6	1	1	12	0	0	1	1
Fort Worth	1	244	11	6	10	12	2	6	5	2	10	27	5	3	6	5	23	13	6	7	1	1	19	2	4	9	2	4	39	2	0	1	1
Houston	4	1059	55	14	21	63	15	16	16	7	56	92	42	38	52	21	113	12	39	34	10	17	40	6	12	3	6	95	115	5	7	26	11
Freeport		22									2	3		2	1		2		2						1	1		1	5				2
Kansas City	2	576	27	16	33	40	10	7	8	14	20	46	6	10	22	26	26	27	28	26	5	13	18	14	17	4	5	6	80	3	4	9	6
Oklahoma City	1	299	11	5	8	9	6	6	3	2	9	33	6	6	13	12	18	9	2	29	2	2	10	1	3	2	1	3	78		1	7	2
Panhandle		24	1	1	1	2						2		1	1				1		1		1					11				1	
St. Louis	4	1023	25	11	37	49	12	8	28	3	27	116	22	36	45	31	78	35	34	32	3	19	68	20	19	13	4	6	137	12	13	69	11
Shreveport		160	9	1	2	7	1	4	2	3	8	3	1	4	2	3	4	2	2	7	2	2	4	5	3	2	1	3	67	0	2	4	0
Monroe		12	1	1						1				1			1											4				3	
South Plains		57	4	2	3	9	3	3	1	1	4	0	2	1	2	4	2	3	0	3	0	0	1	5	0	0	0	0	4	0	0	0	0
Permian Basin		8	1	2																			1					4					
Tulsa	1	355	13	5	12	18	8	5	5	2	13	30	15	12	12	11	29	8	9	7	6	5	22	7	7	4	1	21	50	0	2	10	6
West Central Texas		16						1				1		1	1		2				4								6				
Wichita		102	5	2	4	7	1	0	1	5	5	10	5	0	6	1	6	2	2	3	0	3	10	0	6	3	1	1	10	0	0	3	0
Totals	20	7670	314	135	322	448	112	108	124	93	324	689	210	184	323	294	556	296	247	346	64	115	326	114	141	93	35	246	1051	36	60	183	81

SECTION C

TABLE 4 - 1965 IEEE GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

REGION 7

Section	Total Affiliates	Total Group Members	Com																														
			Au G-1	BC G-2	AP G-3	CT G-4	NS G-5	VC G-6	R G-7	BTR G-8	IM G-9	AES G-10	IT G-12	IFGI G-13	EM G-14	ED G-15	C G-16	MTT G-17	EM3 G-18	Tech G-19	SU G-20	PMP G-21	AC G-23	E G-25	EWS G-26	EMC G-27	HFE G-28	GE G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35
Bay of Quinte		186	14	5	4	3	3	0	2	2	7	10	2	15	1	6	13	3	5	9	1	4	17	3	2	4	0	0	30	2	4	13	2
Hamilton		222	13	3	5	7	1	1	5	12	7	6	4	12	11	12	10	8	2	7	5	2	14	1	7	0	0	2	38	9	2	16	0
Kitchener-Waterloo		148	19	4	5	12	0	0	3	10	2	6	4	3	6	6	6	5	3	10	1	5	10	4	2	1	4	0	10	1	1	3	2
Guelph		15									1		1	1	1					1		1		1					5	2	1		
London		88	5	4	2	1	1	1	2	4	5	5	0	3	5	2	3	2	1	4	2	1	3	3	3	2	0	2	18	2	1	1	0
Montreal	3	1029	42	31	38	45	17	17	18	19	35	57	19	37	46	24	41	50	44	84	12	17	46	18	19	9	9	8	158	12	10	38	9
Niagara International		152	11	1	3	7	2	3	2	3	5	10	4	8	5	2	8	3	2	6	1	6	11	4	2	1	1	2	25	3	2	8	1
Northern Alberta		136	13	1	5	6	3	4	0	2	3	9	3	9	7	4	7	7	1	9	1	0	10	2	2	0	0	3	17	1	0	6	1
Ottawa	5	593	23	10	36	26	8	6	14	9	25	64	17	12	18	24	40	37	9	66	4	13	20	10	17	10	6	10	30	4	8	7	10
Quebec		117	6	5	7	5	1	3	2	4	3	3	2	5	4	3	3	6	2	6	1	2	8	2	2	1	2	1	23	1	0	3	1
Regina		60	0	0	2	3	3	2	2	0	2	2	1	3	3	5	8	3	5	7	0	0	2	1	1	0	0	0	5	0	0	0	0
St.Maurice		13		1							1			1										2	1				6			1	
Southern Alberta		94	7	3	5	3	2	4	0	4	0	4	1	7	4	4	8	3	2	9	2	0	1	1	2	0	1	1	13	1	0	2	0
Toronto	3	1129	66	27	38	61	15	29	11	24	41	45	11	55	46	54	60	27	29	65	6	26	52	28	20	11	8	10	178	16	14	44	12
Vancouver		422	22	11	16	15	2	18	1	11	10	19	4	19	12	10	21	16	15	39	2	4	19	6	7	6	0	4	86	2	2	19	4
Victoria		37	3	2	0	2	1	2	0	0	1	2	0	4	1	0	1	0	1	1	1	0	3	1	1	0	0	1	6	1	0	2	0
Winnipeg		209	13	8	8	18	4	7	4	4	6	11	2	7	2	6	9	7	10	13	1	6	8	1	3	1	1	2	36	4	0	6	1
	11	4650	257	116	174	214	63	97	66	109	153	253	74	201	172	163	238	177	131	336	40	87	224	88	91	46	32	46	684	61	45	169	43

SECTION C

TABLE 4 - 1965 IEEE GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

REGION 8	Total Affiliates	Total Group Members	SECTION																															
			Au G-1	BC G-2	AP G-3	CT G-4	NS G-5	VC 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	MIT G-17	EMB G-18	Com Tech G-19	SU G-20	FMP G-21	AC G-23	E G-25	EWS G-26	EMC G-27	HFE G-28	GE G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35	
Benelux		711	25	7	28	57	27	11	21	13	30	38	42	23	20	45	55	30	12	38	14	23	43	11	11	11	6	5	22	6	10	14	13	
Egypt		97	4	3	5	11	4	0	0	8	7	5	0	2	2	8	7	5	1	5	0	0	6	3	1	0	0	4	0	1	5	0		
France	8	738	22	6	28	42	20	12	28	16	36	48	36	27	12	39	60	30	22	31	15	34	40	12	9	8	7	12	27	15	15	18	11	
Geneva		483	18	7	10	31	14	8	11	14	26	29	18	18	14	37	28	25	14	25	7	17	21	4	6	10	4	4	31	8	8	11	5	
Israel	2	204	5	1	6	18	9	6	5	2	9	15	8	9	4	8	24	3	8	8	2	8	16	1	2	3	3	3	5	2	5	3	3	
Italy	2	753	27	10	30	64	18	16	23	19	34	32	40	24	21	42	83	35	17	35	11	32	42	11	7	9	8	5	17	7	7	12	15	
Norway		129	2	4	4	9	1	1	4	3	7	9	7	4	2	9	11	9	3	11	4	4	6	0	0	1	1	2	7	1	0	2	1	
Sweden	2	575	18	6	18	39	9	16	26	12	29	37	19	26	19	31	25	29	17	30	10	38	27	10	9	9	13	3	17	8	9	9	7	
United Kingdom & Eire	13	925	34	13	33	63	21	15	21	18	48	47	25	33	32	64	51	56	23	50	21	36	37	12	12	6	5	9	89	12	9	28	2	
West Germany	5	382	10	3	16	32	9	4	11	7	17	32	24	7	10	27	37	27	9	16	6	14	16	4	6	6	2	2	9	2	9	4	4	
Subtotals	32	4997	165	60	178	366	132	89	150	112	243	292	219	173	136	310	381	249	126	249	90	266	254	68	63	63	49	45	228	61	73	166	61	
Territory not assigned to IEEE Sections	2	721	31	15	33	61	9	19	22	17	38	25	30	32	22	45	38	39	19	40	7	28	35	11	9	12	11	6	42	7	2	10	6	
Totals	34	5718	196	75	211	427	141	108	172	129	281	317	249	205	158	355	419	288	145	289	97	234	289	79	72	75	60	51	270	68	75	116	67	

REGION 9	Total Affiliates	Total Group Members	SECTION																															
			Au G-1	BC G-2	AP G-3	CT G-4	NS G-5	VC 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	MIT G-17	EMB G-18	Com Tech G-19	SU G-20	FMP G-21	AC G-23	E G-25	EWS G-26	EMC G-27	HFE G-28	GE G-29	P G-31	EI G-32	MAG G-33	IGA G-34	SSC G-35	
Buenos Aires	1	119	7	3	4	9	7	1	0	6	6	3	6	10	0	5	10	9	11	6	0	2	3	0	1	0	0	0	8	0	0	2	0	
Chile		36	2	0	2	5	0	0	0	2	1	2	1	1	0	2	3	1	1	1	1	1	4	2	1	1	0	0	2	0	0	0	0	
Colombia		77	5	1	10	3	0	2	0	2	2	3	0	2	3	1	6	2	1	5	0	1	6	1	1	1	0	0	15	0	0	4	0	
Kanpur (India)		15				2							1			3	2	1	1				4									1		
Mexico		226	5	1	3	15	5	3	3	6	6	4	5	10	16	8	12	5	6	5	2	8	7	4	7	1	0	2	53	7	1	12	4	
Puerto Rico and Virgin Islands		119	7	5	6	5	3	2	0	4	3	10	0	5	7	4	5	5	3	8	1	1	3	1	4	1	0	1	23	0	0	1	1	
Rio de Janeiro		44	2	0	1	2	1	1	1	1	0	2	1	1	2	1	2	3	0	6	0	1	1	1	1	0	0	0	12	0	0	1	0	
Tokyo	8	2011	45	45	95	117	43	36	54	60	70	73	98	61	36	151	128	135	57	95	47	69	91	30	29	33	37	28	73	38	51	50	36	
Subtotals	9	2647	73	55	121	158	59	45	58	81	88	97	112	90	64	175	168	161	80	126	51	83	119	39	44	37	37	31	186	45	52	71	41	
Territory not assigned to IEEE Sections	7	2174	111	49	102	117	32	48	25	67	81	163	43	74	109	80	84	90	50	172	17	46	74	32	45	26	10	21	281	19	18	60	28	
Totals	16	4821	184	104	223	275	91	93	83	148	169	260	155	164	173	255	252	251	130	298	68	129	193	71	89	63	47	52	467	64	70	131	69	

GROUP NAME	GRAND TOTAL
0-1 Audio and Electroacoustics	4,230
0-2 Broadcasting	1,592
0-3 Antennas and Propagation	4,256
0-4 Circuit Theory	6,636
0-5 Nuclear Science	1,939
0-6 Vehicular Communications	1,705
0-7 Reliability	2,431
0-8 Broadcast and Television Receivers	1,835
0-9 Instrumentation and Measurement	4,488
0-10 Aerospace and Electronic Systems	10,397
0-12 Information Theory	4,031
0-13 Industrial Electronics and Control Instrumentation	3,059
0-14 Engineering Management	5,453
0-15 Electron Devices	5,558
0-16 Computer	9,999
0-17 Microwave Theory and Techniques	5,527
0-18 Engineering in Medicine and Biology	3,517
0-19 Communication Technology	6,448
0-20 Sonics and Ultrasonics	1,139
0-21 Parts, Materials and Packaging	2,738
0-23 Automatic Control	5,189
0-25 Education	1,368
0-26 Engineering Writing and Speech	1,920
0-27 Electromagnetic Compatibility	1,638
0-28 Human Factors in Electronics	788
0-29 Geosence Electronics	1,278
0-31 Power	9,391
0-32 Electrical Insulation	851
0-33 Magnetics	1,434
0-34 Industry and General Applications	2,609
0-35 Systems Science and Cybernetics	1,524
Total	114,968

SECTION C

Table 5 - Group Chapters - December 31, 1965

Group Code No.	Name of Group	No. of Chapters	Section Locations					
G - 10	Aerospace & Electronic Systems	45	Albuquerque	Denver	Philadelphia			
			Atlanta	Ft. Walton	Rochester			
			Baltimore	Houston	San Diego			
			Binghamton	Lima	San Francisco			
			Boston (2)	Long Island	Seattle			
			Buffalo	Los Angeles(3)	South Carolina			
			Canaveral (2)	Mid. Tenn.	S. E. Michigan			
			Central Illinois	Mohawk Valley	Syracuse			
			Central Indiana	Nebraska	Jt. Tucson, Ft.			
			Chicago	Jt. NY, LI, NJ	Huachuca & Phoenix			
			Cleveland	Oklahoma City	Twin Cities			
			Columbus	Orlando (2)	Utah			
			Dayton (3)	Ottawa	Washington, D. C.			
			G - 3	Antennas & Propagation	30	Akron	Foothill	San Diego
						Baltimore	Huntsville	San Francisco
Boston	Kansas City	Seattle						
Buffalo	Long Island	S. E. Michigan						
Central Pa.	Los Angeles	Syracuse						
Chicago	Montreal	Toronto						
Columbus	Nebraska	Tucson						
Connecticut	New Orleans	Washington, D. C.						
Dallas	No. Carolina							
Dayton	Orange County							
Denver	Philadelphia							
G - 1	Audio & Electroacoustics	20				Albuquerque	Connecticut	Philadelphia
						Boston	Dayton	San Diego
			Central Indiana	Houston	San Francisco			
			Central Texas	Kitchener-Waterloo				
			Chicago	Montreal	Shreveport			
			Cincinnati	Nebraska	Twin Cities			
			Cleveland	Ottawa	Washington, D. C.			
G - 23	Automatic Control	20	Baltimore	Los Angeles	San Francisco			
			Boston	Milwaukee	Schenectady			
			Chicago	New York	Seattle			
			Dallas	North Jersey	S. E. Michigan			
			Dayton	Philadelphia	Toledo			
			Huntsville	Phoenix	Twin Cities			
			Long Island	Pittsburgh				
G - 2	Broadcasting	12	Cleveland	Nebraska	San Francisco			
			Fla. W. C.	No. Carolina	Twin Cities			
			Houston	Philadelphia	Vancouver			
			Montreal	Pittsburgh	Washington, D. C.			
G - 8	Broadcast & TV Receivers	4	Central Indiana	Chicago	Nebraska			
					Philadelphia			
G - 4	Circuit Theory	12	Albuquerque	Cleveland	Philadelphia			
			Central Illinois	Houston	Portland			
			Central Texas	Los Angeles	San Francisco			
			Chicago	Nebraska	Syracuse			
G - 19	Communication Technology	26	Alabama	Long Island	San Francisco			
			Boston	Los Angeles	Seattle			
			Canaveral	Mohawk Valley	Shreveport			
			Chicago	Nebraska	S. E. Michigan			
			Columbus	New Jersey Coast				
			Connecticut	New York	Syracuse			
			Dallas	North Jersey	Toronto			
			Denver	Orlando	Twin Cities			
			Fla. W. C.	Philadelphia	Washington, D. C.			

Table 5 - Group Chapters - December 31, 1965

Group Code No.	Name of Group	No. of Chapters	Section Locations		
G - 16	Aerospace & Electronic Systems	29	Akron Baltimore Binghamton Boston Central Texas Chicago Cleveland Dallas Dayton Houston	Huntsville Long Island Los Angeles Mohawk Valley Nebraska Jt. NY/Conn. North Jersey Orange County Philadelphia Phoenix	Pittsburgh San Diego San Francisco Schenectady S. E. Michigan Syracuse Twin Cities Utah Washington, D. C.
G - 25	Education	1	Utah		
G - 27	Electromagnetic Compatibility	13	Boston Canaveral Chicago Dayton Huntsville	Los Angeles Mohawk Valley New Orleans Jt. NY, LI, NJ	Philadelphia San Francisco Seattle Washington, D. C.
G - 15	Electron Devices	14	Albuquerque Boston Los Angeles Nebraska	Jt. NY, LI, NJ Philadelphia Pittsburgh Portland San Francisco	Schenectady S. E. Michigan Syracuse Twin Cities Washington, D. C.
G - 14	Engineering Management	20	Baltimore Binghamton Boston Buenaventura Chicago Cleveland Connecticut	Dayton Houston Huntsville Los Angeles Mohawk Valley New Orleans	Jt. NY, LI, NJ Philadelphia San Francisco Seattle Syracuse Twin Cities Washington, D. C.
G - 18	Engineering in Medicine & Biology	24	Baltimore Boston Central Texas Chicago Cleveland Columbus Dayton Denver	Houston Los Angeles Memphis Milwaukee Montreal Nebraska Jt. NY, LI, NJ & Princeton North Carolina Philadelphia	Portland Rochester San Diego San Francisco Seattle Twin Cities Washington, D. C.
G - 26	Engineering Writing & Speech	9	Boston Chicago Los Angeles	North Jersey Philadelphia San Francisco	S. E. Michigan Syracuse Washington, D. C.
G - 29	Geoscience Electronics	1	Houston		
G - 28	Human Factors in Electronics	1	Los Angeles		
G - 13	Industrial Electronics & Control Instrumentation	5	Boston Chicago	Cleveland Schenectady	Nebraska
G - 34	Industry & General Applications	14	Akron Baltimore Boston Buffalo	Chicago Connecticut Los Angeles Philadelphia Pittsburgh	St. Louis San Francisco Schenectady S. E. Michigan Syracuse
G - 12	Information Theory	11	Baltimore Boston Buffalo Los Angeles	Nebraska Jt. NY, LI, NJ Philadelphia San Francisco	S. E. Michigan Syracuse Washington, D. C.
G - 9	Instrumentation & Measurement	13	Boston Chicago Houston Idaho	Los Angeles Miami Jt. NY, LI, NJ Philadelphia	Portland San Francisco Shreveport Utah Washington, D. C.

SECTION C

Table 5 - Group Chapters - December 31, 1965

Group Code No.	Name of Group	No. of Chapters	Section	Locations
J - 33	Magnetics	1	Los Angeles	
G - 17	Microwave Theory & Techniques	32	Baltimore Boston Buffalo Chicago Columbus Dallas Denver Fla. W. C. Foothill Huntsville Kansas City	Long Island Los Angeles Milwaukee Montreal Nebraska New York North Carolina North Jersey Orange County Orlando Philadelphia San Diego San Francisco Schenectady Seattle S. E. Michigan Syracuse Tokyo Toronto Tucson Washington, D. C.
G - 5	Nuclear Science	10	Albuquerque (2) Boston Chicago	Dayton Idaho Los Angeles Nebraska San Francisco Washington, DC
G - 21	Parts, Materials & Packaging	13	Baltimore Boston Chicago	Dayton Houston Los Angeles Nebraska Jt. NY, LI, NJ Philadelphia (2) San Francisco Washing. DC (2)
G - 31	Power	59	Akron Alabama Atlanta Baltimore Binghamton Boston Canton Central Illinois Central Indiana Central Texas Chattanooga Chicago Cincinnati Cleveland Connecticut Dallas Dayton Denver East Tenn. Fla. W. C.	Foothill Fort Worth Houston Kansas City Los Angeles Madison Maine Memphis Mid Hudson Mid Tennessee Milwaukee Montreal Nebraska New Orleans Jt. NY, LI North Jersey Oklahoma City Orlando Philadelphia Phoenix Pittsburgh Portland Rochester Sacramento St. Louis San Diego San Francisco Schenectady Seattle Sharon Shreveport S. E. Michigan Syracuse Tokyo Toronto Twin Cities Utah Vancouver Washington, DC
G - 7	Reliability	12	Baltimore Binghamton Boston Canaveral	Chicago Florida W. C. Huntsville Los Angeles San Francisco Washington, DC
G - 6	Vehicular Communications	15	Chicago Cleveland Dallas Fla. W. C. Houston	Los Angeles Montreal Nebraska Jt. NY, LI, NJ Philadelphia San Francisco S. E. Michigan Toronto Twin Cities Washington, DC
28 Groups		434 Chapters		82 Sections

TABLE 1 - REPORT OF PUBLICATION ACTIVITIES, 1965

GENERAL

The year 1965 was one of reorganization as well as considerable editorial activity. During the year a record number of pages were published, new journals were added, some existing journals were merged, and several steps were taken to improve the publications management structure of the Institute. The state of the IEEE publications program at the end of the year may be summarized as vigorous and expanding.

The total 1965 IEEE editorial program, excluding translated journals, resulted in the publication of 2888 papers and 1276 letters making up a total of 29,187 editorial pages. During 1964, the total editorial pages published numbered 25,696.

In August, the Board of Directors made several changes to the IEEE Bylaws which affected the publications operations of the Institute. The IEEE Editorial Board was replaced by the Publications Board in recognition that the functions required of this Board had expanded into several areas other than those of a strictly editorial nature. As well as editorial policies, the Publications Board is concerned with problems such as the implications of automated procedures for handling information, the IEEE translated-journals program, the improvement of abstracting and indexing procedures, the appropriate role of advertising in IEEE publications, and the overlap between publications. To make it representative of all publications, the new Board includes two Group Editors, the Editors of the STUDENT JOURNAL and the PROCEEDINGS, and will include the Editor of SPECTRUM. Besides the Chairman and Vice Chairman, three to six members other than the above will serve on the Publications Board. Late in the year the voting members of the Institute approved a change to the IEEE Constitution giving the Chairman of the Publications Board the title of Vice President, Publication Activities instead of Editor of the IEEE.

In a further change, the PROCEEDINGS and SPECTRUM are now to be organized with an appointed Editor and an Editorial Board in order to strengthen these publications and make them more responsive to members' needs. This change has not yet been implemented for SPECTRUM.

Another modification to the Bylaws formalized the Panel of Group Editors as a standing committee under the Publications Board. This Panel, whose membership consists of the Editors of all of the Group publications, is a mechanism for providing advice on and implementing overall editorial policies. It began operation by forming subcommittees to examine transactions schedules, paper processing procedures, and information retrieval matters.

The new Bylaws also provided for the establishment of a new committee, the Information Processing Committee, to operate as a policy and technical advisory body to the Publications Board in this area of rapidly growing importance. The present Information Retrieval Committee, meanwhile, remains as an ad hoc working committee in this field to develop and propose new plans and procedures.

The Publications Board and the Technical Activities Board took significant steps toward collaborating on matters of mutual interest through the establishment of two joint task forces, one to explore broad questions related to the Group TRANSACTIONS and the other to examine problems associated with conference publications.

Late in the year Ralph H. Flynn joined the Headquarters staff as Director of Publishing Services. In this newly created position, Mr. Flynn is responsible for directing all business and advertising aspects of the Institute's publications. Alexander A. McKenzie was appointed in April to the new post of Assistant to the Director of Editorial Services. His duties consist of supervising the translated journals program, acting as staff liaison for IEEE information processing activities, and assisting with various other editorial operations. Shortly after receiving his electrical engineering degree in June, Robert R. Beck joined the editorial staff as Assistant Editor of the STUDENT JOURNAL.

IEEE SPECTRUM

With the close of 1965, IEEE SPECTRUM successfully completed its second year of publication. A total of 81 articles was published during 1965, as compared to 69 in 1964. Although most articles were invited or contributed, 14 were staff written. In addition to the appearance of articles and the regular departments a program was initiated of publishing technical reports on important conferences in the feature section of SPECTRUM in order to give the results of this important IEEE activity much broader dissemination.

All told, 2204 pages were published in Spectrum during the year, of which 1395 were devoted to technical and editorial material and 809 consisted of advertising and related matter.

PROCEEDINGS OF THE IEEE

With SPECTRUM firmly established as the "core" publication of the IEEE, the PROCEEDINGS OF THE IEEE became more clearly defined as the appropriate medium for papers of broad interest written at technical levels as high as the subjects warrant. With the role of the PROCEEDINGS thus clarified, the

SECTION D

PROCEEDINGS OF THE IEEE (continued)

The Publications Board took action during the year to form and implement a new program for this research-oriented journal. The most important step was the appointment of Professor M. E. Van Valkenburg of the University of Illinois as the Editor of the PROCEEDINGS; a distinguished PROCEEDINGS Editorial Board was appointed late in 1965 to assist and advise Professor Van Valkenburg. Other innovations planned and partly effected during the year were an increase in the number of special issues, the inclusion of high level invited papers from leading specialists, and a decrease in the time between receipt and publication of correspondence.

The PROCEEDINGS year was highlighted by the appearance of three large special issues devoted to the subjects of radar reflectivity, ultrasonics, and nuclear test detection.

The number of papers submitted for publication consideration for regular issues during 1965 and their disposition were as follows: of the 167 manuscripts received, 33% were accepted, 33% were referred to TRANSACTIONS Editors for consideration, and 34% were rejected. The number of letters published increased to 692 (as compared to 513 for 1964), and 592 pages devoted to this quick method of announcing research results. During the year, the PROCEEDINGS carried a total of 2239 editorial pages and 421 pages of advertising and other non-editorial material, making a grand total of 2660 pages published.

GROUP PUBLICATIONS

As in previous years, the Group TRANSACTIONS encompassed the major share of the IEEE publication output. During the year 144 issues were published totaling 15,356 pages.

At the beginning of the year there were 32 TRANSACTIONS being published. During 1965 three new Groups began publishing TRANSACTIONS, viz. the Electrical Insulation Group, the Magnetics Group, and the Systems Science and Cybernetics Group. As a result of Group mergers, the IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS replaced the TRANSACTIONS of four Groups (Aeronautical and Navigational Electronics, Aerospace, Military Electronics, and Space Electronics and Telemetry) and the IEEE TRANSACTIONS ON PARTS, MATERIALS AND PACKAGING replaced the TRANSACTIONS of two Groups (Component Parts, and Product Engineering and Production). With the encouragement of the Editorial Board, the IEEE JOURNAL OF QUANTUM ELECTRONICS began publication in April under the joint sponsorship of the Electron Devices Group and the Microwave Theory and Techniques Group. The net result of the mergers and the addition of new publications was that the Group publications at the end of the year numbered 32, the same as at the beginning of the year.

Three Group publications are now issued monthly, the TRANSACTIONS of the Power and the Electron Devices Groups and the IEEE JOURNAL OF QUANTUM ELECTRONICS.

IEEE STUDENT JOURNAL

The bimonthly student magazine of the IEEE continued to serve the Student membership during 1965. In its six issues it provided its nearly 25,000 readers with 312 pages of technical and other career information, including 44 articles. An additional 20,000 copies of the September issue were sent to IEEE Counselors in colleges and technical institutes for distribution to incoming students who were potentially interested in electrical and electronics engineering and the IEEE.

TRANSLATED JOURNALS

The IEEE maintained its program of translating and publishing papers from four Russian and two Japanese technical journals. This program is carried out with the support of the National Science Foundation. The year 1965 saw the appearance of 5678 pages translated from the Russian and 3654 pages from the Japanese. Advance tables of contents of issues to be translated were carried in SPECTRUM, as were signed critical reviews of selected papers which had been published.

SPECIAL PUBLICATIONS AND PREPRINTS

The papers presented at the 1965 International Convention held in New York in March resulted in publication of a thirteen-part CONVENTION RECORD totaling 2658 pages.

In addition, eleven special Conference Records were issued comprising 222 papers and 2276 pages. Finally, a total of 294 papers, amounting to 4952 pages, were individually preprinted by photo-offset means for five meetings.

TABLE 1 - IEEE & JOINTLY SPONSORED TECHNICAL MEETINGS, 1965

Name of Meeting	Sponsors	Place	Date
11th Annual Symp. on Reliability & Quality Control	IEEE-ASQC-IES	Miami Beach, Florida	Jan. 12-14
IEEE Winter Power Meeting	G-P	New York, NY	Jan. 31-Feb. 5
6th Winter Convention on Military Electronics	G-MIL, L. A. Sect.	Los Angeles, California	Feb. 3 - 5
11th Amer. Astronautical Society Meeting	ACRS, G-AS, G-SET	Denver, Colorado	Feb. 8 - 10
Int'l. Solid State Circuits Conf.	IEEE, G-CT, Univ. of Pa.	Philadelphia, Pa.	Feb. 17 - 19
Particle Accelerator Conference	G-NS et al	Washington, D. C.	Mar. 10 - 12
3rd Annual Conf. on New Horizons on Quality & Reliability	Binghamton Sec. et al	Binghamton, NY	Mar. 13
IEEE Int'l. Convention	All Groups, TAB Committees	New York NY	Mar. 22 - 26
6th Mining Industry Tech. Conf.	IEEE	Indiana, Pa.	April 1
Rubber & Plastics Industries Conf.	G-IGA	Akron, Ohio	April 5 - 6
Batch Fabrication Proc. & Their Impact on Computer Tech.	G-C	Los Angeles, California	April 6 - 8
Region 3 Meeting	Region 3	Winston-Salem, N. C.	April 6 - 8
Railroad Conference	ASME-G-IGA	Pittsburgh, Pa.	April 7 - 8
Nat'l. Telemetry Conf.	IEEE, AIAA-ISA	Houston, Texas	April 13-15
IEEE Region 6 Annual Conf.	Region 6	Las Vegas, Nev.	April 13-15
1965 Electronics & Instrumentation Conf. & Exhibit	Cinc. Sect., ISA	Cincinnati, Ohio	April 14-15
Specialists Conf. on Thin Film Action Devices	G-ED, NASA et al	Baltimore, Md.	April 14-15
Symposium on System Theory	PIB-IEEE et al	New York, NY	April 20-22
URSI-IEEE Spring Meeting	IEEE, URSI	Washington, D. C.	April 20-23
Symposium on Recent Optimization Tech.	G-SSC, OSA, Carnegie Tech., et al	Pittsburgh, Pa.	April 21-23
Southwestern IEEE Conference & Elec. Show (SWIEEEO)	Region 5	Dallas, Texas	April 21-23
1965 Int'l Nonlinear Magnetics Conf. (INTERMAG)	G-Mag	Washington, D. C.	April 21-23
American Power Conference	G-P, et al	Chicago, Ill.	April 27-29

2nd Rocky Mt. Bioengineering Symp.	Denver Sect. et al	Denver, Colo.	May 3 - 4
5th Annual Pkg. Industry Conf.	G-IGA	Milwaukee, Wisc.	May 4 - 6
1965 Microwave Theory & Techniques Symp.	G-MTT	Clearwater, Fla.	May 5 - 7
Electronic Components Conf. (ECC)	G-CP-EIA	Washington, D. C.	May 5 - 7
Southeastern Textile Industry Conf.	G-IGA	Atlanta, Ga.	May 6 - 7
6th Symposium on Human Factors in Electronics	G-HFE	Boston, Mass.	May 6 - 8
NAECON (Nat'l Aerospace Elec. Conference)	G-ANE-AIAA, Dayton Sect.	Dayton, Ohio	May 10-12
7th Cement Industry Tech. Conf.	G-IGA	Allentown, Pa.	May 11-13
11th Pulp & Paper Industry Conf	G-IGA	Mobile, Ala.	May 12-14
Symposium on Signal Transmission and Processing	G-CT	New York, N. Y.	May 13-14
16th Annual Appliance Tech. Conf.	G-IGA	Columbus, Ohio	May 18-19
Power Industry Computer App. Conference (PICA)	G-P & Fla. West-coast	Clearwater, Fla.	May 19-21
9th Annual Rural Electrification Conference	G-IGA	San Francisco, Cal.	May 24-25
4th Annual Symp. on Microelectronics	St. Louis Section	St. Louis, Mo.	May 24-26
IFIP Congress '65	IFIP	New York, NY	May 24-29
1st Annual IEEE Communication Conv. Inc. Globecom VII	G-Com Tech, Denver Section	Boulder, Colo.	June 7 - 9
Symp. on Automatic Support Sys. for Adv. Maintainability	St. Louis Section	St. Louis, Mo.	June 7 - 9
1965 Midwest Symp. on Circuit Theory	G-CT, Colo. State University	Ft. Collins, Colo.	June 14-15
Chicago Spring Conf. on Broadcast & T. V. Receivers	G-BTR	Des Plaines, Ill.	June 14-15
Aerospace Technical Conference	G-AS, Houston Sect.	Houston, Texas	June 21-24
Joint Automatic Control Conf.	IEEE-ASME, AIChE, ISA	Troy, New York	June 22-25
Summer Power Meeting	G-P	Detroit, Mich.	June 27-July 2
7th National Symp. on Electromagnetic Compatibility	G-EMC	New York, N. Y.	June 28-30
San Diego Symp. for Biomedical Engineering	San Diego Sect., US Naval Hosp. et al	San Diego, Calif.	July 6 - 8

Annual IEEE Conf. on Nuclear & Space Radiation Effects	G-NS et al	Ann Arbor, Mich	July 12-15
Electron Devices Tutorial Symp.	G-ED	San Francisco, Cal.	Aug. 23-24
6th Int'l Conf. on Medical Elec. & Biological Engineering	IFMEBE	Tokyo, Japan	Aug. 23-27
WESCON (Western Electronics Show & Convention)	IEEE	San Francisco, Cal.	Aug. 24 - 27
Antennas & Propagation Int'l Symp.	G-AP	Washington, DC	Aug. 30-Sept. 1
URSI Symp. on Electromag. Wave Theory	Benelux Sect.	Delft, Holland	Sept. 6 - 11
Int'l Conf. on Industrial Electronics and Control Instrumentation	G-IECI, Phila. Section	Philadelphia, Pa.	Sept. 8-10
6th Nat'l Elec'l. Insulation Conf.	G-EI-NEMA et al	New York, N. Y.	Sept. 12-16
13th Annual Joint Engrg. Mgmt. Conf.	G-EM, ASME et al	New York, N. Y.	Sept. 12-14
12th Annual Petroleum Industry Tech. Conf.	G-IGA	Houston, Texas	Sept. 13-15
World Wide Tel. Comm. Conf.	IEEE German Sec. et al	Munich, Germany	Sept. 15 -17
Nat'l Power Conference	G-P-ASME	Albany, N. Y.	Sept. 19-23
IEEE Conference on Military Elec. (MIL-E-CON 9)	G-AES	Washington, D. C.	Sept. 22-24
15th IEEE Broadcast Symposium	G-B	Washington, D. C.	Sept. 23-25
13th Annual Communications Conf.	Cedar Rapids Sec.	Cedar Rapids, Iowa	Sept. 24-25
7th Biennial Electric Heating Technical Conf.	G-IGA	Cleveland, Ohio	Sept. 28-29
URSI-IEEE Fall Meeting	IEEE-URSI	Hanover, N. H.	Oct. 4 - 6
1965 Canadian Electronics Conf.	Region 7	Toronto, Ont., Can.	Oct. 4 - 6
EHV Transmission Conf.	G-P	Richmond, Virginia	Oct. 4 - 6
2nd Industrial & Com. Power Systems Tech. Conference	G-IGA	Buffalo, New York	Oct. 5 - 7
6th Symp. on Switching Circuit Theory & Logical Design	G-C, Univ. of Mich.	Ann Arbor, Michigan	Oct. 6 - 8
Pan American Congr. of Elec. & Mechanical Engineering	IEEE Mexico Sect. et al	Mexico City, Mexico	Oct. 9 - 17
Mohawk Valley Communications Symposium (NATCOM)	Mohawk Valley Sect.	Utica, New York	Oct. 11 - 13
1965 Protective Relaying Conf.	Twin Cities Sect. & Univ. of Minn.	Minneapolis, Minn.	Oct. 12 - 14

Systems Science Conference	G-SSC	Cleveland, Ohio	Oct. 18-19
12th Nuclear Science Symp.	G-NS	San Francisco	Oct. 18 - 20
Int'l Materials Handling Tech. Conf.	G-IGA, ASME	Pittsburgh, Pa.	Oct. 18 - 20
5th Annual Photovoltaic Specialist Conference	G-ED	Washington, D. C.	Oct. 18 - 20
Allerton Conf. on Circuit & System Theory	G-CT	Monticello, Ill.	Oct. 20 - 22
Electron Devices Meeting	G-ED	Washington, D. C.	Oct. 20 - 22
IEEE Middle Atlantic Textile Industry Technical Conference	G-IGA	Charlotte, N. C.	Oct. 21-22
Symposium on Variable Speed Drives	Montreal Sec. et al	Montreal, Canada	Oct. 22
Nat'l Electronics Conference	IEEE et al	Chicago, Illinois	Oct. 25 - 27
2nd Symp. on Consumer Electronics	G-A, G-BTR, G-ED	Chicago, Illinois	Oct. 25 - 26
4th Symp. on Discrete Adaptive Processes	G-IT, G-AC	Chicago, Illinois	Oct. 25 - 27
Thermionic Conver. Specialists Conf.	G-ED	San Diego, Calif.	Oct. 25 - 27
East Coast Conf. on Aerospace & Navig. Elec. (ECCANE)	G-AES, Baltimore Section	Baltimore, Md.	Oct. 27 - 29
Industrial Static Power Conversion Tech. Conf.	G-IGA, Phila Sect.	Philadelphia, Pa.	Nov. 1-3
Western Appliance Tech. Conf.	G-IGA	Los Angeles, Calif.	Nov. 2
IEEE Int'l Space Electronics Symp.	G-AES	Miami Beach, Fla.	Nov. 2-4
NEREM (Northeast Elec. Res. & Eng. Meeting)	Region 1	Boston, Mass.	Nov. 3 - 5
18th Conf. on Eng. in Medicine & Biology	G-BME-ISA	Philadelphia, Pa.	Nov. 10-12
11th Conf. on Magnetism & Magnetic Materials	G-MAG et al	San Francisco, Cal.	Nov. 16 - 19
MAECON (Mid-America Elec. Conf.)	Kansas City Sec.	Kansas City, Mo.	Nov. 18 - 19
Int'l. Conf. on UHV Television	IEE, IEEE, IERE	London, England	Nov. 22 - 23
Fall Joint Computer Conference	AFIPS (IEEE-ACM)	Las Vegas, Nev.	Nov. 30-Dec.1, 2
1965 Ultrasonics Symposium	G-SU	Boston, Mass.	Dec. 1-3
16th Vehicular Commun. Conf.	G-VC	Washington, D. C.	Dec. 2-3

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 1965, are indicated in the comparison figures listed below.

Date	Year	Attendance	Firms Repre- sented	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.

* Figures not available

** Estimated

*** Reduction in attendance due to blizzard

SECTION E

Table 1 - IEEE Student Branches and Student Branch Membership, 1965

Eight Student Branches were established during 1965. The total number of Student Branches is now 278 operating as follows:

- 219 - IEEE Student Branches
- 58 - IEEE Student Associate Branches*
- 1 - IEEE Student/Student Associate Branch

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership***</u>
*Academy of Aeronautics	New York	1	72
Air Force Institute of Technology	Dayton	2	39
Akron, University of	Akron	2	66
Alabama, University of	Alabama	3	89
Alaska, University of	Anchorage	6	25
Alberta, University of	Northern Alberta	7	74
Arizona State University	Phoenix	6	165
Arizona, University of	Tucson	6	77
Arkansas, University of	Arkansas	5	108
Arlington State College	Fort Worth	5	104
Auburn University	Alabama	3	97
Bradley University	Illinois Valley	4	76
Brevard Engineering College	Canaveral	3	21
Bridgeport, University of	Connecticut	1	30
Brigham Young University	Utah	6	83
*British Columbia Institute of Technology	Vancouver	7	41
*British Columbia Vocational School	Vancouver	7	14
British Columbia, University of	Vancouver	7	146
*Bronx Community College	New York	1	42
*Bronx Community College (Evening Division)	New York	1	3
Brooklyn, Polytechnic Institute of (Day Division)	New York	1)	
Brooklyn, Polytechnic Institute of (Evening Division)	New York	1)	141
*Broome Technical Community College	Binghamton	1	66
Brown University	Providence	1	28
Bucknell University	Central Pennsylvania	2	34
Buenos Aires, University of	Buenos Aires	9	20
California Institute of Technology	San Gabriel	6	13
California State Polytechnic College (San Luis Obispo)	Santa Barbara	6	141
California State Polytechnic College (Kellogg-Voorhis Campus)	Foothill	6	69
California State College at Long Beach	South Bay Harbor	6	40
California State College at Los Angeles	Metropolitan Los Angeles	6	30
California, University of (Berkeley)	San Francisco	6	164
California, University of (Los Angeles)	Santa Monica Bay	6	54
California Western University	Santa Monica Bay	6	15
Capitol Institute of Technology	Washington	2	61
*Carleton University	Ottawa	7	25
Carnegie Institute of Technology	Pittsburgh	2	32
Case Institute of Technology	Cleveland	2	77
Catholic University of America	Washington	2	18
**Catholic University of Louvain	Benelux	8	10
Central Technical Institute	Kansas City	5	46
Christian Brothers College	Memphis	3	116
Cincinnati, University of	Cincinnati	2	81
Citadel, The	South Carolina	3	7

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership***</u>
Clarkson College of Technology	Mohawk Valley	1	53
Clemson University	South Carolina	3	92
The Cleveland State University	Cleveland	2	50
Colorado State University	Denver	5	40
Colorado, University of	Denver	5	151
Columbia University	New York	1	48
Concepcion, Universidad de	Chile	9	0
Connecticut, University of	Connecticut	1	44
Cooper Union, The	New York	1	44
Cornell University	Ithaca	1	61
Dayton, University of	Dayton	2	56
*Dayton, University of, Technical Institute	Dayton	2	2
Delaware, University of	Delaware Bay	2	42
Denver, University of	Denver	5	42
Detroit, University of	Southeastern Michigan	4	47
*DeVry Technical Institute (Illinois)	Chicago	4	493
*DeVry Technical Institute (Canada)	Toronto	7	27
Drexel Institute of Technology	Philadelphia	2	119
Duke University	North Carolina	3	36
*Eastern Ontario Institute of Technology	Ottawa	7	27
Ecole Polytechnique	Montreal	7	41
*Electronic Technical Institute	San Diego	6	13
Escuela Tecnica Superior de Ingenieros de Telecomunicacion (Spain)	-	8	40
Evansville College	Evansville-Owensboro	3	36
Fairleigh Dickinson University	North Jersey	1	43
Florida, University of	Gainesville	3	113
*Franklin Institute of Boston	Boston	1	60
*Franklin University	Columbus	2	11
Fresno State College	San Francisco	6	18
Gannon College	Erie	2	25
Gaston College	North Carolina	3	29
George Washington University	Washington	2	28
Georgia Institute of Technology	Atlanta	3	97
*Gonzaga University	Spokane	6	6
Grove City College	Sharon	2	58
*Hamilton Institute of Technology, The	Hamilton	7	48
Hartford, University of (Hillyer College)	Connecticut	1	29
Hawaii, University of	Hawaii	6	21
*Heald Engineering College	San Francisco	6	63
Hofstra College	Long Island	1	18
Houston, University of (College of Engineering)	Houston	5	66
*Houston, University of (College of Technology)	Houston	5	21
Howard University	Washington	2	46
*Hudson Valley Community College	Schenectady	1	31
Idaho, University of	Spokane	6	31
Illinois Institute of Technology	Chicago	4	53
Illinois, University of (Urbana)	Central Illinois	4	130
*Illinois, University of, Navy Pier, Chicago	Chicago	4	23
Indiana Institute of Technology	Fort Wayne	4	72
Iowa, State University of	Cedar Rapids	4	44
Iowa State University of Science & Technology	Central Iowa	4	139
John Carroll University	Cleveland	2	34
John Hopkins University, The	Baltimore	2	25
Kansas State University of Agriculture & Applied Science	Kansas City	5	97

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership***</u>
Kansas, University of	Kansas City	5	33
Kentucky, University of	Lexington	3	55
Lafayette College	Lehigh Valley	2	37
Lamar State College of Technology	Beaumont	5	77
La Salle College	Philadelphia	2	17
Laval University	Quebec	7	15
*Lawrence Institute of Technology	Southeastern Michigan	4	53
Lehigh University	Lehigh Valley	2	49
Louisiana Polytechnic Institute	Shreveport	5	89
Louisiana State University	Baton Rouge	3	85
Louisville, University of	Louisville	3	34
Lowell Technological Institute.	Boston	1	57
Loyola University	Santa Monica Bay	6	21
**McMaster University	Hamilton	7	12
Maine, University of	Maine	1	65
Manhattan College	New York	1	160
*Manitoba Institute of Technology	Winnipeg	7	36
Manitoba, University of	Winnipeg	7	25
Marquette University	Milwaukee	4	110
Maryland, University of	Washington	2	129
Massachusetts Institute of Technology	Boston	1	105
Massachusetts, University of	Springfield	1	77
Merrimack College	Boston	1	16
Miami, University of	Miami	3	36
Michigan State University	Southeastern Michigan	4	130
Michigan Technological University	Northeast Wisconsin	4	46
Michigan, University of	Southeastern Michigan	4	139
Milwaukee School of Engineering	Milwaukee	4	58
Minnesota, University of	Twin Cities	4	186
Mississippi State University	Mississippi	3	122
Mississippi, The University of	Memphis	3	17
Missouri, The University of (Rolla)	St. Louis	5	342
Missouri, University of	St. Louis	5	115
*Mohawk Valley Community College	Mohawk Valley	1	17
Monmouth College	New York	1	20
Montana State College	Montana	6	121
Nebraska, University of	Nebraska	4	121
Nevada, University of	Sacramento	6	22
Newark College of Engineering	North Jersey	1	204
**Newark College of Engineering (Evening Division)	North Jersey	1	1
New Hampshire, University of	New Hampshire	1	72
*New Mexico Highlands University	Albuquerque	6	16
New Mexico State University	El Paso	5	27
New Mexico, University of	Albuquerque	6	52
*New York City Community College	New York	1	48
New York, The City College of the City University of	New York	1	70
*New York Institute of Technology	New York	1	45
New York, State University of, Agri- cultural & Technical Institute	Mohawk Valley	1	38
*New York State University (Alfred)	Buffalo	1	82
New York, State University of (Buffalo)	Buffalo	1	64
New York University (Day Division)	New York	1)	
New York University (Evening Div- ision)	New York	1)	87
North Carolina State College	North Carolina	3	133
North Dakota State College	Twin Cities	4	50
North Dakota, University of	Twin Cities	4	36
Northeastern University	Boston	1	183
*Northern Alberta Institute of Technology	Northern Alberta	7	16
Northrop Institute of Technology	Metropolitan Los Angeles	6	69

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership***</u>
Northwestern University	Chicago	4	40
Norwich University	Vermont	1	12
Notre Dame, University of	South Bend	4	99
Ohio Northern University	Lima	2	45
Ohio State University	Columbus	2	160
*Ohio Technical Institute	Columbus	2	56
Ohio University	Columbus	2	42
*Oklahoma City University	Oklahoma City	5	-
Oklahoma State University	Tulsa	5	216
Oklahoma, University of	Oklahoma City	5	62
**Old Dominion College	Hampton Roads	3	18
*Omaha, Municipal University of	Nebraska	4	13
Oregon State College	Portland	6	110
*Oregon Technical Institute	Portland	6	61
Ottawa, University of	Ottawa	7	21
Pacific States University	Metropolitan Los Angeles	6	28
Pacific, University of	Sacramento	6	7
Padova, Universita di	Italy	8	3
Pennsylvania Military College	Philadelphia	2	19
Pennsylvania State University	Central Pennsylvania	2	167
Pennsylvania, University of	Philadelphia	2	69
*Pierce College	San Fernando Valley	6	6
Pittsburgh, University of	Pittsburgh	2	103
*Port Arthur College	Beaumont	5	16
Prairie View A & M College	Houston	5	3
Pratt Institute	New York	1	24
Princeton University	Princeton	1	38
Puerto Rico, University of	Puerto Rico & Virgin Islands	9	55
Purdue University	Central Indiana	4	194
Queen's University	Bay of Quinte	7	68
*Queensborough Community College	New York	1	85
RCA Institutes, Inc.	New York	1	203
*Radio College of Canada	Toronto	7	18
*Radio Engineering Institute	Nebraska	4	73
Rensselaer Polytechnic Institute	Schenectady	1	66
Rhode Island, University of	Providence	1	47
Rice University	Houston	5	50
*Roanoke Technical Institute	Hampton Roads	3	27
Rochester Institute of Technology	Rochester	1	33
Rochester, The University of	Rochester	1	18
Rome, University of	Italy	8	38
Rose Polytechnic Institute	Central Indiana	4	67
Royal Military College of Canada	Bay of Quinte	7	13
Rutgers University	Princeton	1	43
*Ryerson Polytechnical Institute	Toronto	7	23
Sacramento State College	Sacramento	6	16
St. Joseph's College	Philadelphia	2	1
St. Louis University	St. Louis	5	35
San Diego State College	San Diego	6	34
San Francisco State College	San Francisco	6	24
San Jose State College	San Francisco	6	93
Santa Clara, University of	San Francisco	6	78
Saskatchewan, University of	Regina	7	55
Seattle University	Seattle	6	27
*Sinclair College	Dayton	2	4
South Carolina, University of	South Carolina	3	34
South Dakota School of Mines & Technology	Denver	5	39
South Dakota State University	Twin Cities	4	51
Southeastern Massachusetts Tech- nological Institute, Bradford Durfee Branch	Providence	1	7

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership***</u>
Southeastern Massachusetts Technological Institute, New Bedford Branch	Providence	1	42
Southern Alberta Institute of Technology, The	Southern Alberta	7	175
Southern California, University of	Metropolitan Los Angeles	6	58
Southern Methodist University	Dallas	5	26
*Southern Technical Institute	Atlanta	3	11
*Southwest Missouri State College	Kansas City	5	19
Southwestern Louisiana, University of	Baton Rouge	3	71
*Spartan School of Electronics	Tulsa	5	27
*Spring Garden Institute	Philadelphia	2	34
Stanford University	San Francisco	6	69
Stevens Institute of Technology	North Jersey	1	28
Swarthmore College	Philadelphia	2	12
Syracuse University	Syracuse	1	30
*Temple University, The Community College and Technical Institute of	Philadelphia	2	32
Tennessee Agricultural & Industrial State University	Nashville	3	28
Tennessee Technological University	Nashville	3	82
Tennessee, University of	East Tennessee	3	106
Texas Agricultural & Mechanical University	Houston	5	104
Texas College of Arts & Industries	Corpus Christi	5	44
Texas Technological College	South Plains	5	20
Texas, University of	Central Texas	5	161
Texas Western College	El Paso	5	101
Toledo, University of	Toledo	4	78
Toronto, University of	Toronto	7	38
Tri-State College	Fort Wayne	4	36
Tufts University	Boston	1	36
Tulane University	New Orleans	3	38
Union College	Schenectady	1	32
*Union County Technical Institute	North Jersey	1	16
*Union Technical Institute	North Jersey	1	69
*United States Air Force Academy	Denver	5	11
United States Naval Postgraduate School	San Francisco	6	50
Universidad Distrital Francisco Jose de Caldas	Colombia	9	15
Utah State University	Utah	6	33
Utah, University of	Salt Lake City	6	144
*Valparaiso Technical Institute	South Bend	4	179
Valparaiso University	South Bend	4	19
Vanderbilt University	Nashville	3	93
Vermont, University of	Vermont	1	16
Villanova University	Philadelphia	2	54
Virginia Military Institute	Virginia Mountain	3	41
Virginia Polytechnic Institute	Virginia Mountain	3	131
Virginia, University of	Central Virginia	3	32
*Voorhees Technical Institute	New York	1	31
*Ward School of Electronics	Connecticut	1	11
Washington State University	Spokane	6	38
Washington University	St. Louis	5	15
Washington, University of	Seattle	6	117
Waterloo, The University of	Kitchener-Waterloo	7	43
Wayne State University	Southeastern Michigan	4	78
Wentworth Institute	Boston	1	32
Western Michigan University	West Michigan	4	26
Western Ontario Institute of Technology, The	Southeastern Michigan	4	60
Western Ontario, University of	London	7	8

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership***</u>
West Virginia Institute of Technology	West Virginia	2	32
West Virginia University	Pittsburgh	2	60
Wichita State University	Wichita	5	63
Windsor, University of	Southeastern Michigan	4	26
Wisconsin, University of	Madison	4	161
Worcester Polytechnic Institute	Worcester	1	61
Wyoming, University of	Denver	5	70
Yale University	Connecticut	1	18
Youngstown University	Sharon	2	22

*IEEE Student Associate Branches

**Established in 1965

***Membership as of November 15, 1965