

REPORT OF THE SECRETARY

1955

TO THE BOARD OF DIRECTORS,
THE INSTITUTE OF RADIO ENGINEERS, INC.

GENTLEMEN:

THE ANNUAL REPORT FOR THE YEAR 1955 IS HEREWITH SUBMITTED.

PERHAPS THE MOST SIGNIFICANT EVENT OF THE YEAR WAS THE 118 PERCENT INCREASE IN THE MEMBER GRADE RESULTING MOSTLY FROM THE ARRANGEMENTS WHICH MADE POSSIBLE THE UP-GRADING OF QUALIFIED ASSOCIATE GRADE MEMBERS. THIS HAS BROUGHT THE PERCENTAGE OF PROFESSIONAL GRADE MEMBERS TO 42.1, WHEREAS IT WAS 29.1 AT THE BEGINNING OF THE YEAR.

IT IS INTERESTING TO NOTE THAT THE FOREIGN MEMBER INCREASE WAS 19.5 PERCENT COMPARED TO 13 PERCENT FOR THE UNITED STATES AND POSSESSIONS.

GROWTH HAS TAKEN PLACE IN THE PROFESSIONAL GROUPS, IN THE OUTPUT OF EDITORIAL MATERIAL, IN THE NATIONAL CONVENTION AND IN OTHER ACTIVITIES. THE AFFAIRS OF THE IRE CONTINUE IN SATISFACTORY CONDITION.

RESPECTFULLY SUBMITTED,

HARADEN PRATT
SECRETARY

JANUARY 23, 1956

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MEMBER

FELLOW

MEMBERSHIP

SENIOR MEMBER

2,543

ASSOCIATE

AT THE END OF THE YEAR 1955, THE MEMBERSHIP OF THE INSTITUTE OF RADIO ENGINEERS, INCLUDING ALL GRADES, WAS 47,388, AN INCREASE OF 5,610, OR 13.4% OVER THE PREVIOUS YEAR. THE 5,610 MEMBER INCREASE IN 1955 WAS MORE THAN 4,644 AND 4,260, THE INCREASES FOR 1954 AND 1953 RESPECTIVELY. THE PERCENTAGE INCREASE WAS 12½% IN 1954 AND 13% IN 1953. THE MEMBERSHIP TREND FROM 1912 TO DATE IS SHOWN GRAPHICALLY IN FIGURE 2, AND NUMERICALLY IN TABLE XVII.

ACTUAL MEMBERSHIP FIGURES FOR 1953, 1954 AND 1955 ARE SHOWN IN TABLE III. OF THE 20,096 NON-VOTING ASSOCIATES, 4,833 HAVE BEEN IN THAT GRADE FOR MORE THAN FIVE YEARS.

FOLLOWING ACTION TAKEN BY THE BOARD OF DIRECTORS ON REVISIONS TO THE QUALIFICATIONS FOR MEMBER GRADE, THE APPLICATIONS OF ALL ASSOCIATE GRADE MEMBERS WERE RE-EXAMINED AND THOSE QUALIFIED TRANSFERRED TO MEMBER GRADE, WITH THE RESULT THAT THE PERCENTAGE OF MEMBERS IN THE GRADE OF MEMBER DOUBLED IN THE YEAR 1955.

DETAILED ANALYSES CAN BE FOUND ON THE TABLES LISTED ON THE PRECEDING PAGE.

NON-VOTING ASSOCIATE

0

ASSOCIATE

42.4

STUDENT

15.2

42.1

64.5

100.0

TABLE I - TOTAL MEMBERSHIP DISTRIBUTION BY GRADES AS OF 12/31/55

<u>GRADE</u>		
FELLOW	565	1.2
SENIOR MEMBER	5,643	11.9
MEMBER	13,360	28.2
VOTING ASSOCIATE	396	.8
TOTALS	47,388	100.0
ASSOCIATE	20,096	42.4
STUDENT	7,328	15.5
GRAND TOTAL	47,388	100.0

TABLE II - TOTAL MEMBERSHIP DISTRIBUTION BY GRADE BY PERCENTAGE AS OF 12/31/55

<u>GRADE</u>	<u>GRADE PERCENTAGE</u>	<u>TOTAL PERCENTAGE</u>
FELLOW	1.2	2.5
SENIOR MEMBER	11.9	25.3
MEMBER	28.2	60.0
VOTING ASSOCIATE	.8	1.7
TOTAL	42.1	89.5
ASSOCIATE	42.4	89.9
STUDENT	15.5	33.1
TOTAL	100.0	100.0

* INCLUDES 556 VOTING ASSOCIATES
 ** INCLUDES 803 VOTING ASSOCIATES
 *** INCLUDES 396 VOTING ASSOCIATES

TABLE III - COMPARISON OF TOTAL MEMBERSHIP DISTRIBUTION BY GRADES, 1953 - 1955

GRADE	AS OF DEC. 31, 1955		AS OF DEC. 31, 1954		AS OF DEC. 31, 1953	
	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL
FELLOW	565	1.2	489	1.2	425	1.2
SENIOR MEMBER	5,643	11.9	4,780	11.4	4,170	11.2
MEMBER	13,360	28.2	6,107	14.6	5,307	14.3
ASSOCIATE	20,492 ***	43.2	24,846 **	59.5	22,702 *	61.1
STUDENT	<u>7,328</u>	15.5	<u>5,556</u>	13.3	<u>4,530</u>	12.2
TOTALS	47,388		41,778		37,134	

TABLE IV - ANALYSIS OF TOTAL MEMBERSHIP DISTRIBUTION BY GRADES, 1955

	<u>F(\$15)</u>	<u>SM(\$15)</u>	<u>SM(\$10)</u>	<u>M(\$15)</u>	<u>M(\$10)</u>	<u>VA(\$15)</u>	<u>A(\$15)</u>	<u>A(\$10)</u>	<u>S(\$5)</u>	<u>TOTAL</u>
UNITED STATES	496	5038	149	10,497	1639	362	4337	14,008	6995	43,521
U.S. POSSESSIONS		7	1	53	6	2	40	39	16	164
U.S. OVERSEAS MILITARY	<u>1</u>	<u>18</u>	<u>—</u>	<u>74</u>	<u>20</u>	<u>1</u>	<u>26</u>	<u>141</u>	<u>11</u>	<u>292</u>
	497	5063	150	10,624	1665	365	4403	14,188	7022	43,977
CANADA	25	140	3	444	75	13	193	591	233	1,717
FOREIGN	<u>43</u>	<u>280</u>	<u>7</u>	<u>508</u>	<u>44</u>	<u>18</u>	<u>237</u>	<u>484</u>	<u>73</u>	<u>1,694</u>
TOTALS	565	5483	160	11,576	1784	396	4833	15,263	7328	47,388

TABLE V - FIVE-YEAR ANALYSIS OF U. S. AND FOREIGN MEMBERSHIP

	<u>1955</u>	<u>1954</u>	<u>1953</u>	<u>1952</u>	<u>1951</u>
TOTAL	47,388	41,778	37,134	32,874	29,408
U. S. AND POSSESSIONS	43,977	38,923	34,505	30,535	27,202
FOREIGN (INCLUDING CANADA)	3,411	2,855	2,629	2,339	2,206
PER CENT FOREIGN	7.2	6.8	7.1	7.1	7.5

- * INCLUDES 856 VOTING ASSOCIATES
- ** INCLUDES 803 VOTING ASSOCIATES
- *** INCLUDES 396 VOTING ASSOCIATES

TABLE VII - DISTRIBUTION OF U. S. MEMBERS, 1954 AND 1955
 (INCLUDING U. S. POSSESSIONS AND U. S. OVERSEAS MILITARY)

<u>1955</u>	<u>1954</u>		<u>GAIN</u>	<u>LOSS</u>
234	199	ALABAMA	35	
366	243	ARIZONA	123	
94	63	ARKANSAS	31	
6373	5404	CALIFORNIA	969	
274	246	COLORADO	28	
748	690	CONNECTICUT	58	
64	58	DELAWARE	6	
693	765	DISTRICT OF COLUMBIA		72
634	471	FLORIDA	163	
289	255	GEORGIA	34	
32	26	IDAHO	6	
1984	1866	ILLINOIS	118	
834	664	INDIANA	170	
448	360	IOWA	88	
255	240	KANSAS	15	
191	167	KENTUCKY	24	
152	145	LOUISIANA	7	
89	80	MAINE	9	
1800	1591	MARYLAND	209	
2866	2491	MASSACHUSETTS	375	
889	872	MICHIGAN	17	
406	366	MINNESOTA	40	
105	45	MISSISSIPPI	60	
560	481	MISSOURI	79	
32	34	MONTANA		2
84	78	NEBRASKA	6	
21	9	NEVADA	12	
119	83	NEW HAMPSHIRE	36	
4173	3843	NEW JERSEY	330	
489	468	NEW MEXICO	21	
8673	7901	NEW YORK	772	
335	313	NORTH CAROLINA	22	
47	41	NORTH DAKOTA	6	
1876	1782	OHIO	94	
392	310	OKLAHOMA	82	
231	213	OREGON	18	
2603	2314	PENNSYLVANIA	289	
94	88	RHODE ISLAND	6	
99	71	SOUTH CAROLINA	28	
52	38	SOUTH DAKOTA	14	
191	169	TENNESSEE	22	
1509	1123	TEXAS	386	
130	122	UTAH	8	
37	31	VERMONT	6	
864	742	VIRGINIA	122	
603	560	WASHINGTON	43	
68	65	WEST VIRGINIA	3	
384	305	WISCONSIN	79	
35	27	WYOMING	8	

	<u>1955</u>	<u>1954</u>	<u>NET GAIN</u>
TOTAL	43,521	38,518	5,003

TABLE VII - DISTRIBUTION OF U. S. MEMBERS, 1954 AND 1955 - CONTINUED
 (INCLUDING U. S. POSSESSIONS AND U. S. OVERSEAS MILITARY)

		<u>UNITED STATES POSSESSIONS</u>		<u>GAIN</u>	<u>LOSS</u>
<u>1955</u>	<u>1954</u>				
39	30	ALASKA		9	
4	1	CANAL ZONE		3	
-	5	CANTON ISLAND			5
3	2	MARIANA ISLANDS		1	
33	23	PUERTO RICO		10	
84	86	TERRITORIES OF HAWAII			2
<u>1</u>	<u>1</u>	VIRGIN ISLANDS			
164	148			23	7
		<u>U. S. OVERSEAS MILITARY</u>			
292	257	U. S. OVERSEAS MILITARY		35	

TABLE VIII - DISTRIBUTION OF U. S. MEMBERS BY GRADE AND STATE - AS OF 12/31/55

	F	SM		M		VA	A		S	TOTAL
	\$15	\$15	\$10	\$15	\$10	\$15	\$15	\$10	\$5	
ALABAMA	-	10	-	29	5	-	3	78	109	234
ARIZONA	1	38	1	90	8	1	23	144	60	366
ARKANSAS	2	8	-	13	-	-	6	23	42	94
CALIFORNIA	55	713	27	1547	291	48	728	2213	751	6,373
COLORADO	1	32	2	65	11	-	29	68	66	274
CONNECTICUT	12	89	4	194	28	3	68	246	104	748
DELAWARE	-	4	-	17	-	-	8	19	16	64
DIST. OF COLUMBIA	29	137	4	232	18	14	69	123	67	693
FLORIDA	5	61	-	128	28	10	53	191	158	634
GEORGIA	-	18	1	57	9	2	21	66	115	289
IDAHO	-	-	-	7	4	-	6	11	4	32
ILLINOIS	16	259	4	537	47	33	278	606	204	1,984
INDIANA	6	92	1	146	17	4	77	220	271	834
IOWA	3	41	2	82	22	3	40	147	108	448
KANSAS	-	13	-	50	5	1	24	81	81	255
KENTUCKY	1	17	2	45	7	-	12	65	42	191
LOUISIANA	1	12	-	32	6	2	18	50	31	152
MAINE	2	5	-	11	3	-	6	14	48	89
MARYLAND	10	227	11	556	75	17	161	628	115	1,800
MASSACHUSETTS	42	281	15	678	122	14	203	899	612	2,866
MICHIGAN	5	63	-	195	27	15	114	279	191	889
MINNESOTA	4	28	-	105	21	2	54	127	65	406
MISSISSIPPI	-	2	-	9	4	-	3	23	64	105
MISSOURI	1	42	1	110	27	4	59	145	171	560
MONTANA	-	-	-	7	1	1	3	4	16	32
NEBRASKA	-	5	-	27	3	2	7	23	17	84
NEVADA	-	3	-	1	-	-	1	4	12	21

TABLE VIII - DISTRIBUTION OF U. S. MEMBERS BY GRADE AND STATE (CONTINUED)
AS OF DECEMBER 31, 1955

	<u>F</u>	<u>SM</u>		<u>M</u>		<u>VA</u>	<u>A</u>		<u>S</u>	<u>TOTAL</u>
	<u>\$15</u>	<u>\$15</u>	<u>\$10</u>	<u>\$15</u>	<u>\$10</u>	<u>\$15</u>	<u>\$15</u>	<u>\$10</u>	<u>\$5</u>	
NEW HAMPSHIRE	-	12	-	30	4	-	11	28	34	119
NEW JERSEY	116	724	24	1130	142	42	426	1264	305	4,173
NEW MEXICO	2	62	1	129	23	2	35	182	53	489
NEW YORK	129	1046	25	1995	315	64	865	3005	1229	8,673
NORTH CAROLINA	2	27	1	77	10	4	39	107	68	335
NORTH DAKOTA	-	-	-	4	-	1	3	10	29	47
OHIO	8	225	3	469	63	15	231	663	199	1,876
OKLAHOMA	1	26	-	68	11	1	19	150	116	392
OREGON	3	18	2	56	5	4	22	52	69	231
PENNSYLVANIA	22	338	10	602	128	29	236	830	408	2,603
RHODE ISLAND	-	2	1	23	2	2	10	28	26	94
SOUTH CAROLINA	-	6	-	11	3	-	15	33	31	99
SOUTH DAKOTA	-	-	-	8	1	-	4	7	32	52
TENNESSEE	1	16	1	45	8	-	17	58	45	191
TEXAS	6	145	1	371	60	6	120	504	296	1,509
UTAH	-	6	1	14	6	-	8	28	67	130
VERMONT	-	4	-	7	3	-	1	5	17	37
VIRGINIA	3	124	3	244	22	6	70	262	130	864
WASHINGTON	5	35	-	137	27	4	70	182	143	603
WEST VIRGINIA	-	2	-	10	2	-	10	24	20	68
WISCONSIN	2	19	1	92	13	5	50	81	121	384
WYOMING	-	1	-	5	2	1	1	8	17	35
TOTALS	496	5038	149	10,497	1639	362	4337	14,008	6995	43,521

TABLE IX - DISTRIBUTION OF MEMBERSHIP BY REGION, BY SECTION, BY GRADE
AS OF DECEMBER 31, 1955

<u>REGION</u>	<u>SECTION</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>VA</u>	<u>A</u>	<u>S</u>	<u>SECTION</u> <u>TOTAL</u>	<u>REGION</u> <u>TOTAL</u>
1	BINGHAMTON	-	10	61	1	97	9	178	6304
	BOSTON	45	342	840	15	1114	704	3060	
	BUFFALO-NIAGARA	2	35	85	3	175	31	331	
	ERIE SUB.	-	3	15	1	14	2	35	
	CONN. VALLEY	12	97	240	4	344	133	830	
	BERKSHIRE COUNTY SUB.	-	8	31	-	33	3	75	
	ELMIRA-CORNING	1	15	38	-	52	5	111	
	ITHACA	3	14	28	-	49	46	140	
	ROCHESTER	3	41	80	4	94	16	238	
	ROME-UTICA	1	42	90	-	158	4	295	
	SCHENECTADY	12	77	105	3	124	72	393	
	SYRACUSE	15	111	190	-	249	53	618	
2	LONG ISLAND	35	333	846	20	1245	275	2754	9693
	NEW YORK	51	252	548	23	1165	653	2692	
	MID-HUDSON SUB.	1	18	88	1	250	18	376	
	MONMOUTH SUB.	8	87	162	4	181	12	454	
	WESTCHESTER COUNTY SUB.	3	68	150	9	199	49	478	
	NORTHERN NEW JERSEY	66	448	791	26	991	220	2542	
	PRINCETON	26	83	107	1	140	40	397	
3	ATLANTA	-	35	104	2	135	258	534	7993
	CHARLESTON SUB.	-	6	9	-	45	7	67	
	BALTIMORE	7	117	345	4	489	72	1034	
	CENTRAL FLORIDA	-	34	72	-	122	75	303	
	HUNTSVILLE	1	12	52	-	115	89	269	
	MIAMI	5	23	58	12	77	77	252	

TABLE IX - DISTRIBUTION OF MEMBERSHIP BY REGION, BY SECTION, BY GRADE (CONTINUED)
AS OF DECEMBER 31, 1955

<u>REGION</u>	<u>SECTION</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>VA</u>	<u>A</u>	<u>S</u>	<u>SECTION TOTAL</u>	<u>REGION TOTAL</u>
3	NORTH-CAROLINA VIRGINIA	3	26	110	2	189	167	497	
	PIEDMONT SUB.	-	18	52	3	72	10	155	
	NORTHWEST FLORIDA	-	4	28	-	45	6	83	
	PHILADELPHIA	27	344	713	31	1103	268	2486	
	LANCASTER SUB.	2	32	55	3	98	16	206	
	WASHINGTON	35	373	716	32	819	132	2107	
4	AKRON	1	16	89	3	125	24	258	2950
	CINCINNATI	2	39	87	5	133	41	307	
	CLEVELAND	2	46	120	3	180	60	411	
	COLUMBUS	1	17	42	1	92	21	174	
	DETROIT	5	62	210	14	393	150	834	
	EMPORIUM	1	40	44	1	32	2	120	
	CENTRE COUNTY SUB.	-	17	20	-	30	36	103	
	PITTSBURGH	7	54	123	2	244	146	576	
	TOLEDO	-	8	32	1	72	17	130	
	WILLIAMSPORT	-	2	14	-	11	10	37	
5	CEDAR RAPIDS	2	35	85	-	158	35	315	5035
	CHICAGO	17	271	615	35	948	289	2175	
	DAYTON	3	100	145	2	256	35	541	
	USAFIT SUB.	-	2	19	-	45	1	67	
	DES MOINES-AMES	1	7	16	2	24	68	118	
	EVANSVILLE- OWENSBORO	1	23	27	-	55	4	110	
	FORT WAYNE	3	31	52	2	105	7	200	
	INDIANAPOLIS	2	40	68	2	102	170	384	
	LOUISVILLE	-	4	27	-	27	39	97	
MILWAUKEE	2	20	97	5	115	155	394		

TABLE IX - DISTRIBUTION OF MEMBERSHIP BY REGION, BY SECTION, BY GRADE (CONTINUED)
AS OF DECEMBER 31, 1955

<u>REGION</u>	<u>SECTION</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>VA</u>	<u>A</u>	<u>S</u>	<u>SECTION TOTAL</u>	<u>REGION TOTAL</u>
5	OMAHA-LINCOLN	-	5	35	3	38	24	105	
	TWIN CITIES	4	28	147	3	216	131	529	
6	BEAUMONT-PT. ARTHUR	-	4	22	-	30	49	105	3481
	DALLAS-FT. WORTH	3	81	193	4	279	54	614	
	DENVER	1	35	81	1	106	82	306	
	EL PASO	-	11	64	1	131	19	226	
	HOUSTON	2	34	118	2	138	91	385	
	KANSAS CITY	1	32	76	3	137	148	397	
	WICHITA SUB.	-	2	25	-	47	9	83	
	LITTLE ROCK	2	8	13	-	29	42	94	
	LUBBOCK	-	-	18	-	30	35	83	
	NEW ORLEANS	1	8	38	1	69	38	155	
	OKLAHOMA CITY	-	9	49	1	53	65	177	
	ST. LOUIS	-	26	105	2	172	100	405	
	SAN ANTONIO	1	26	59	-	81	70	237	
TULSA	1	17	30	-	116	50	214		
7	ALBUQUERQUE- LOS ALAMOS	2	58	116	1	150	36	363	8149
	CHINA LAKE	-	6	26	-	46	1	79	
	HAWAII	-	6	32	2	42	2	84	
	LOS ANGELES	18	384	940	22	1606	325	3295	
	BUENAVENTURA SUB.	1	10	40	-	57	7	115	
	ORANGE BELT SUB.	4	43	91	1	128	5	272	
	PASADENA SUB.	4	75	162	2	185	37	465	
	PHOENIX	1	17	57	-	94	33	202	
	FT. HUACHUCA SUB.	-	10	14	-	37	4	65	
	TUCSON SUB.	-	12	27	1	40	23	103	
PORTLAND	3	20	62	4	78	71	238		

Handwritten notes and corrections in the table:

- Under PASADENA SUB.: 27 512 1233 25 1976 374 4147
- Under TUCSON SUB.: 39 98 171 60 370

TABLE IX - DISTRIBUTION OF MEMBERSHIP BY REGION, BY SECTION, BY GRADE (CONTINUED)
AS OF DECEMBER 31, 1955

<u>REGION</u>	<u>SECTION</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>VA</u>	<u>A</u>	<u>S</u>	<u>SECTION TOTAL</u>	<u>REGION TOTAL</u>
7	SACRAMENTO	1	5	43	5	53	18	125	
	SALT LAKE CITY	-	7	28	-	51	68	154	
	SAN DIEGO	-	48	142	4	186	38	418	
	SAN FRANCISCO	5	31	127	9	184	89	445	
	EAST BAY SUB.	6	30	80	3	158	119	396	
	PALO ALTO SUB.	16	128	193	2	332	122	793	1634
	SEATTLE	5	33	153	4	138	134	467	
RICHLAND SUB.	-	2	21	1	20	26	70	537	
8	ALBERTA	-	3	17	-	50	20	90	1717
	BAY OF QUINTE	1	4	15	1	30	12	63	
	HAMILTON	2	18	34	1	57	4	116	
	LONDON	-	6	20	-	30	9	65	
	MONTREAL	7	35	142	6	165	51	406	
	QUEBEC SUB.	-	-	11	-	23	13	47	
	NEWFOUNDLAND	-	1	16	-	17	1	35	
	OTTAWA	8	23	64	-	100	8	203	
	TORONTO	6	41	143	3	209	42	444	
	VANCOUVER	1	7	23	1	62	44	138	
	WINNIPEG	-	5	34	1	41	29	110	
-	BUENOS AIRES	2	19	17	-	80	18	136	
-	EGYPT	-	3	7	-	22	-	32	
-	ISRAEL	-	1	17	-	34	1	53	
-	TOKYO	2	7	18	-	44	-	71	
TOTALS		525	5366	12,746	377	19,351	7249	45,614	45,322

TABLE X - DISTRIBUTION OF FOREIGN MEMBERS - 1954 AND 1955

<u>1955</u>	<u>1954</u>		<u>1955</u>	<u>1954</u>	
8	6	ARABIA	1	1	IRAN
136	93	ARGENTINA	1	1	IRAQ
1	-	ASCENSION ISLAND	7	5	IRELAND
1	-	AUSTRIA	53	41	ISRAEL
78	66	AUSTRALIA	49	39	ITALY
1	1	BAHAMA ISLANDS	71	61	JAPAN
15	13	BELGIUM	3	2	KOREA
5	3	BERMUDA	3	4	LEBANON
1	1	BOLIVIA	1	-	LUXEMBOURG
83	66	BRAZIL	7	4	MALAYA
2	2	BRITISH GUIANA	1	2	MALTA
8	6	BRITISH WEST INDIES	1	-	MARSHALL ISLANDS
6	4	BURMA	43	29	MEXICO
1717	1449	CANADA	3	6	MOROCCO
3	3	CEYLON	25	22	NETHERLANDS
6	5	CHILE	13	11	NEW ZEALAND
-	1	CHINA	1	-	NICARAGUA
15	12	COLOMBIA	15	13	NORWAY
2	2	COSTA RICA	25	15	PAKISTAN
21	20	CUBA	1	1	PANAMA, REPUBLIC OF
2	2	CYPRUS	1	2	PERSIAN GULF
4	4	CZECHOSLOVAKIA	11	8	PERU
30	27	DENMARK	10	11	PHILIPPINE ISLANDS
-	2	DOMINICAN REPUBLIC	7	5	PORTUGAL
1	-	DUTCH GUIANA	10	11	SCOTLAND
2	1	ECUADOR	41	44	SOUTH AFRICA
32	16	EGYPT	17	16	SPAIN
344	303	ENGLAND	4	4	STRAIT SETTLEMENTS
-	1	ETHIOPIA	65	55	SWEDEN
-	1	FIJI ISLANDS	63	52	SWITZERLAND
6	5	FORMOSA	4	3	SYRIA
86	71	FRANCE	1	1	TASMANIA
31	16	GERMANY	7	4	THAILAND
12	7	GREECE	1	-	TRANS-JORDAN
1	1	GUATEMALA	1	-	TRUK ISLAND
9	4	HONG KONG	10	11	TURKEY
1	1	HUNGARY	3	3	URUGUAY
2	1	ICELAND	24	16	VENEZUELA
129	131	INDIA	3	1	WALES
2	2	INDONESIA	1	2	YUGOSLAVIA

	<u>1955</u>	<u>1954</u>	<u>NET GAIN</u>
GRAND TOTAL	3,411	2,855	556

TABLE XI - DISTRIBUTION OF FOREIGN MEMBERS BY GRADE AND COUNTRY
AS OF DECEMBER 31, 1955

<u>COUNTRY</u>	<u>F</u>	<u>SM</u>		<u>M</u>		<u>VA</u>	<u>A</u>		<u>S</u>	<u>TOTAL</u>
	<u>\$15</u>	<u>\$15</u>	<u>\$10</u>	<u>\$15</u>	<u>\$10</u>	<u>\$15</u>	<u>\$15</u>	<u>\$10</u>	<u>\$5</u>	
ARABIA	-	2	-	2	1	-	1	2	-	8
ARGENTINA	2	19	-	17	-	-	22	58	18	136
ASCENSION ISLAND	-	-	-	-	-	1	-	-	-	1
AUSTRIA	-	-	-	-	-	-	-	1	-	1
AUSTRALIA	2	22	-	28	1	6	9	10	-	78
BAHAMA ISLANDS	-	-	-	1	-	-	-	-	-	1
BELGIUM	-	1	-	5	1	1	2	5	-	15
BERMUDA	-	1	-	2	-	-	1	1	-	5
BOLIVIA	-	-	-	1	-	-	-	-	-	1
BRAZIL	-	8	-	20	1	1	12	21	20	83
BRITISH GUIANA	-	-	-	1	-	-	-	1	-	2
BRITISH WEST INDIES	-	-	-	3	-	-	2	3	-	8
BURMA	-	-	-	3	-	-	1	2	-	6
CANADA	25	140	3	444	75	13	193	591	233	1717
CEYLON	-	-	-	1	-	-	-	2	-	3
CHILE	-	-	-	2	-	-	1	3	-	6
COLOMBIA	-	1	-	5	-	-	2	5	2	15
COSTA RICA	-	1	-	1	-	-	-	-	-	2
CUBA	1	3	-	3	-	-	4	9	1	21
CYPRUS	-	-	-	2	-	-	-	-	-	2
CZECHOSLOVAKIA	-	-	-	3	-	-	1	-	-	4
DENMARK	1	4	-	6	1	-	12	6	-	30
DUTCH GUIANA	-	-	-	-	1	-	-	-	-	1
ECUADOR	-	1	-	1	-	-	-	-	-	2
EGYPT	-	3	-	7	-	-	1	21	-	32
ENGLAND	17	90	3	143	8	4	42	31	6	344
FORMOSA	-	-	-	2	-	-	1	3	-	6

TABLE XI - DISTRIBUTION OF FOREIGN MEMBERS BY GRADE AND COUNTRY (CONTINUED)
AS OF DECEMBER 31, 1955

COUNTRY	F	SM		M		VA	A		S	TOTAL
	\$15	\$15	\$10	\$15	\$10	\$15	\$15	\$10	\$5	
FRANCE	4	23	-	22	5	1	7	23	1	86
GERMANY	1	12	1	5	3	-	1	7	1	31
GREECE	-	-	-	2	1	-	1	8	-	12
GUATEMALA	-	-	-	-	-	-	-	1	-	1
HONG KONG	-	-	-	3	1	-	3	2	-	9
HUNGARY	-	-	-	-	-	-	1	-	-	1
ICELAND	-	-	-	-	-	-	1	1	-	2
INDIA	1	19	-	42	1	-	21	45	-	129
INDONESIA	-	-	-	1	-	-	1	-	-	2
IRAN	-	-	-	-	-	-	-	1	-	1
IRAQ	-	-	-	1	-	-	-	-	-	1
IRELAND	-	1	1	-	-	-	2	3	-	7
ISRAEL	-	1	-	14	3	-	5	29	1	53
ITALY	-	6	-	11	-	-	13	18	1	49
JAPAN	2	7	-	14	4	-	3	41	-	71
KOREA	-	1	-	1	1	-	-	-	-	3
LEBANON	-	-	-	-	-	-	2	-	1	3
LUXEMBOURG	-	-	-	-	-	-	-	1	-	1
MALAYA	-	1	-	4	-	-	1	1	-	7
MALTA	-	-	-	1	-	-	-	-	-	1
MARSHALL ISLANDS	-	-	-	-	-	-	-	1	-	1
MEXICO	1	4	-	10	2	1	3	6	16	43
MOROCCO	-	1	-	1	-	-	-	1	-	3
NETHERLANDS	3	6	-	9	1	-	1	5	-	25
NEW ZEALAND	-	1	-	4	-	1	5	2	-	13
NICARAGUA	-	-	-	1	-	-	-	-	-	1
NORWAY	-	3	-	3	-	1	-	8	-	15

TABLE XI - DISTRIBUTION OF FOREIGN MEMBERS BY GRADE AND COUNTRY (CONTINUED)
AS OF DECEMBER 31, 1955

COUNTRY	F	SM		M		VA	A		S	TOTAL
	\$15	\$15	\$10	\$15	\$10	\$15	\$15	\$10	\$5	
PAKISTAN	-	6	-	6	5	-	-	8	-	25
PANAMA, REPUBLIC OF	-	-	-	-	-	-	1	-	-	1
PERSIAN GULF	-	-	-	-	-	-	1	-	-	1
PERU	-	1	-	3	1	-	-	6	-	11
PHILIPPINE ISLANDS	-	-	-	3	-	-	3	4	-	10
PORTUGAL	-	1	-	2	-	-	1	2	1	7
SCOTLAND	1	1	-	3	-	-	2	3	-	10
SOUTH AFRICA	-	6	-	18	-	-	10	7	-	41
SPAIN	-	2	-	7	-	-	-	6	2	17
STRAIT SETTLEMENTS	-	-	-	2	-	-	2	-	-	4
SWEDEN	3	6	-	23	2	-	13	18	-	65
SWITZERLAND	4	9	2	16	-	-	10	22	-	63
SYRIA	-	-	-	3	-	-	-	1	-	4
TASMANIA	-	-	-	1	-	-	-	-	-	1
THAILAND	-	-	-	1	-	-	-	6	-	7
TRANS-JORDAN	-	-	-	-	-	-	-	1	-	1
TRUK ISLAND	-	-	-	-	-	-	-	1	-	1
TURKEY	-	-	-	2	-	1	1	6	-	10
URUGUAY	-	-	-	1	-	-	2	-	-	3
VENEZUELA	-	6	-	7	-	-	5	4	2	24
WALES	-	-	-	1	-	-	1	1	-	3
YUGOSLAVIA	-	-	-	1	-	-	-	-	-	1
TOTALS	68	420	10	952	119	31	430	1075	306	3411

TABLE XII - GEOGRAPHICAL AND GRADE BREAKDOWN - CANADA, U. S. POSSESSIONS AND OVERSEAS MILITARY MEMBERSHIP AS OF DECEMBER 31, 1955

	<u>CANADIAN</u>									<u>TOTAL</u>
	<u>F</u>	<u>SM</u>		<u>M</u>		<u>VA</u>	<u>A</u>		<u>S</u>	
	<u>\$15</u>	<u>\$15</u>	<u>\$10</u>	<u>\$15</u>	<u>\$10</u>	<u>\$15</u>	<u>\$15</u>	<u>\$10</u>	<u>\$5</u>	
ALBERTA	-	3	-	15	2	-	10	40	20	90
BAY OF QUINTE	1	4	-	11	4	1	2	28	12	63
HAMILTON	2	18	-	30	4	1	14	43	4	116
LONDON	-	6	-	18	2	-	14	16	9	65
MONTREAL	7	33	2	127	26	6	37	151	64	453
NEWFOUNDLAND	-	1	-	12	4	-	1	16	1	35
OTTAWA	8	23	-	60	4	-	30	70	8	203
TORONTO	6	41	-	125	18	3	57	152	42	444
VANCOUVER	1	6	1	21	2	1	21	41	44	138
WINNIPEG	-	5	-	25	9	1	7	34	29	110
TOTALS	25	140	3	444	75	13	193	591	233	1717

<u>U. S. POSSESSIONS</u>										
ALASKA	-	-	-	12	5	-	9	8	5	39
CANAL ZONE	-	-	-	-	-	-	1	3	-	4
MARIANA ISLANDS	-	-	-	1	-	-	1	1	-	3
PUERTO RICO	-	2	-	8	-	-	5	9	9	33
HAWAII	-	5	1	31	1	2	24	18	2	84
VIRGIN ISLANDS	-	-	-	1	-	-	-	-	-	1
TOTALS	-	7	1	53	6	2	40	39	16	164

<u>OVERSEAS MILITARY</u>										
P.O. SAN FRANCISCO, CALIF.	-	6	-	36	6	-	17	64	5	134
P.O. SEATTLE, WASH.	-	2	-	2	-	-	1	7	1	13
P.O. NEW YORK, N.Y.	1	10	-	36	14	1	8	70	5	145
TOTALS	1	18	-	74	20	1	26	141	11	292

TABLE XIII - MEMBERSHIP CHANGE, BY GRADES, IN 1955

<u>GAINS</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>S</u>	<u>TOTAL</u>
ELECTIONS	1	381	1349	1940	4342	8013
ELECTIONS PENDING	-	18	30	-	-	48
REINSTATEMENTS	4	90	122	517	117	850
TRANSFERS TO	75	534	6358	694	-	7661
TOTAL GAIN	80	1023	7859	3151	4459	16,572
<u>LOSSES</u>						
NEW ELECTIONS (UNPAID)	-	20	120	84	-	224
TRANSFERS FROM	-	73	243	5823	1522	7661
VOIDED ELECTIONS	-	-	2	15	-	17
DEATHS	4	16	16	30	3	69
RESIGNATIONS	-	15	33	328	75	451
DELINQUENTS	-	36	192	1225	1087	2540
TOTAL LOSS	4	160	606	7505	2687	10,962
NET GAIN	76	863	7253	- 4354	1772	5610

THE NET GAIN OF 5,610 SHOWN ABOVE COMPARES WITH 4,644 FOR 1954.

TABLE XIV - ANALYSIS OF TRANSFERS, BY GRADES, 1955

<u>TRANSFERS FROM</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>S</u>	<u>TOTAL</u>
TRANSFERS TO F	73	-	2	-	75
TRANSFERS TO SM	-	243	291	-	534
TRANSFERS TO M	-	-	5530	828	6358
TRANSFERS TO A	-	-	-	694	694
TOTAL	73	243	5823	1522	7661

TABLE XV - ANALYSIS OF HIGHER GRADE APPLICATIONS FOR 1955

	<u>APPROVED</u>	<u>REJECTED</u>
ADMISSION APPLICATIONS		
SENIOR MEMBER	381	27
MEMBER	1349	70
TRANSFER APPLICATIONS		
SENIOR MEMBER	534	31
MEMBER	6358	26

TABLE XVI - LIFE MEMBERS, BY GRADES, AS OF DECEMBER 31, 1955

YEAR		DOMESTIC	CANADIAN	FOREIGN	TOTAL
1913					
1914	FELLOW	42	1	5	48
1915					
1916	SENIOR MEMBER	23	-	2	25
1917					
1918	MEMBER	7	-	1	8
1919					
1920	VOTING ASSOCIATE	10	-	-	10
1921					
1922	ASSOCIATE	-	-	-	-
1923					
1924					
1925	TOTAL	82	1	8	91
1926					
1927					
1928					
1929					
1930					
1931					
1932	5,301	102	(-331)	(-4.8)	5,072
1933	5,011	108	(-1,254)	(-20.1)	3,765
1934	4,803	85	(-200)	(-4.5)	4,688
1935	4,786	121	(-380)	(-7.8)	4,527
1936	4,888	206	88	19.2	5,182
1937	5,036	380	264	5.1	5,680
1938	5,088	314	(-55)	(-1.0)	5,403
1939	5,213	398	309	5.9	5,920
1940	5,309	485	90	1.7	6,184
1941	5,412	609	1,315	23.1	7,336
1942	7,251	1,533	1,773	26.3	10,557
1943	8,793	2,255	2,285	26.0	13,333
1944	11,054	2,083	2,082	18.6	15,229
1945	13,861	1,598	2,842	20.1	18,301
1946	15,903	2,252	2,375	15.1	20,530
1947	17,403	1,814	2,580	15.9	21,807
1948	17,438	5,939	2,400	11.4	25,777
1949	18,373	5,195	3,212	14.3	26,780
1950	21,442	7,560	2,795	3.3	31,800
1951	24,851	4,427	480	1.4	35,758
1952	25,591	4,282	5,465	11.8	35,338
1953	32,304	4,810	4,387	13.9	41,501
1954	35,222	5,885	4,644	13.5	45,751
1955	40,080	7,089	5,818	13.4	53,007

TABLE XVII - YEARLY MEMBERSHIP, 1912 - 1955

<u>YEAR</u>	<u>HIGHER GRADE</u>	<u>STUDENT</u>	<u>YEARLY INCREASE (DECREASE)</u>	<u>% INCREASE (DECREASE)</u>	<u>TOTAL</u>
1912			-	-	109
1913			122	112.0	231
1914			402	174.0	633
1915			351	55.4	984
1916			208	21.2	1,193
1917			134	11.2	1,327
1918			(-505)	(-38.1)	822
1919			264	32.2	1,086
1920			199	18.3	1,285
1921			197	15.3	1,382
1922			(-140)	(-10.0)	1,242
1923			176	14.2	1,418
1924			635	31.0	2,053
1925			195	9.5	2,248
1926			482	21.4	2,730
1927			1,480	54.3	4,210
1928			613	14.6	4,823
1929			872	17.6	5,695
1930			840	14.8	6,535
1931			199	2.9	6,734
1932	6,301	102	(-331)	(-4.9)	6,403
1933	5,011	108	(-1,284)	(-20.1)	5,119
1934	4,803	86	(-230)	(-4.5)	4,889
1935	4,388	121	(-380)	(-7.8)	4,509
1936	4,896	299	686	15.2	5,195
1937	5,099	360	264	5.1	5,459
1938	5,089	314	(-56)	(-1.0)	5,403
1939	5,213	399	209	3.9	5,612
1940	5,209	496	93	1.7	5,705
1941	6,112	909	1,316	23.1	7,021
1942	7,261	1,533	1,773	25.3	8,794
1943	8,793	2,286	2,285	26.0	11,079
1944	11,054	2,083	2,058	18.6	13,137
1945	13,881	1,898	2,642	20.1	15,779
1946	15,902	2,252	2,375	15.1	18,154
1947	17,403	3,634	2,883	15.9	21,037
1948	17,498	5,939	2,400	11.4	23,437
1949	18,573	8,196	3,332	14.2	26,769
1950	21,442	7,560	2,233	8.3	29,002
1951	24,981	4,427	406	1.4	29,408
1952	28,591	4,283	3,466	11.8	32,874
1953	32,604	4,530	4,260	12.9	37,134
1954	36,222	5,556	4,644	12.5	41,778
1955	40,060	7,328	5,610	13.4	47,388

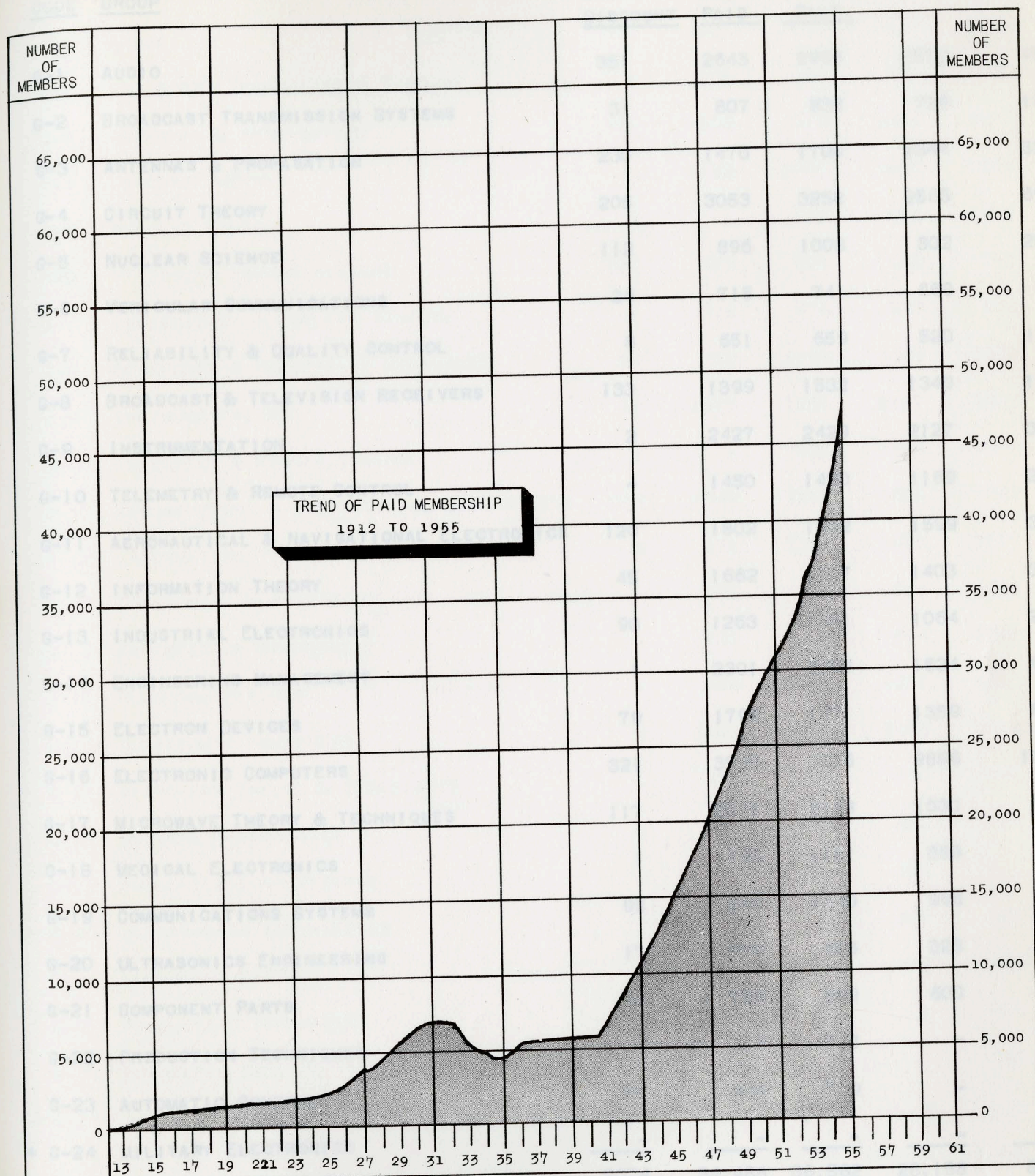


TABLE XVIII - PROFESSIONAL GROUP MEMBERSHIP, BY GROUPS, 1954, 1955
(PAID MEMBERSHIP ONLY)

CODE	GROUP	1955			1954	NET GAIN
		STUDENT DISCOUNT	OTHER PAID	TOTAL PAID		
G-1	AUDIO	351	2645	2996	2510	486
G-2	BROADCAST TRANSMISSION SYSTEMS	31	807	838	729	109
G-3	ANTENNAS & PROPAGATION	230	1470	1700	1344	356
G-4	CIRCUIT THEORY	205	3053	3258	2565	693
G-5	NUCLEAR SCIENCE	112	896	1008	802	206
G-6	VEHICULAR COMMUNICATIONS	26	715	741	669	72
G-7	RELIABILITY & QUALITY CONTROL	8	651	659	520	139
G-8	BROADCAST & TELEVISION RECEIVERS	133	1399	1532	1349	183
G-9	INSTRUMENTATION	2	2427	2429	2127	302
G-10	TELEMETRY & REMOTE CONTROL	-	1450	1450	1169	281
G-11	AERONAUTICAL & NAVIGATIONAL ELECTRONICS	120	1802	1922	1599	323
G-12	INFORMATION THEORY	45	1662	1707	1403	304
G-13	INDUSTRIAL ELECTRONICS	98	1263	1361	1064	297
G-14	ENGINEERING MANAGEMENT	1	2301	2302	1634	668
G-15	ELECTRON DEVICES	79	1792	1871	1359	512
G-16	ELECTRONIC COMPUTERS	321	3595	3916	2896	1020
G-17	MICROWAVE THEORY & TECHNIQUES	117	2031	2148	1630	518
G-18	MEDICAL ELECTRONICS	1	1100	1101	898	203
G-19	COMMUNICATIONS SYSTEMS	98	1242	1340	966	374
G-20	ULTRASONICS ENGINEERING	17	439	456	325	131
G-21	COMPONENT PARTS	12	788	800	600	200
G-22	PRODUCTION TECHNIQUES	-	318	318	-	318
G-23	AUTOMATIC CONTROL	67	642	709	-	709
* G-24	MILITARY ELECTRONICS	-	-	-	-	-
		2074	34,488	36,562	28,158	8404

* NO ASSESSMENT LEVIED.

TABLE XIX - FIVE-YEAR ANALYSIS OF PROFESSIONAL GROUP MEMBERSHIP, 1951 - 1955
(PAID MEMBERSHIP ONLY)

<u>CODE</u>	<u>GROUP</u>	<u>1951</u>	<u>1952</u>	<u>1953</u>	<u>1954</u>	<u>1955</u>
G-1	AUDIO	725	1681	2147	2510	2996
G-2	BROADCAST TRANSMISSION SYSTEMS	4	358	661	729	838
G-3	ANTENNAS & PROPAGATION	571	1008	1219	1344	1700
G-4	CIRCUIT THEORY	-	1192	2151	2565	3258
G-5	NUCLEAR SCIENCE	-	-	109	802	1008
G-6	VEHICULAR COMMUNICATIONS	130	419	584	669	741
G-7	RELIABILITY & QUALITY CONTROL	-	315	476	520	659
G-8	BROADCAST & TELEVISION RECEIVERS	24	750	1106	1349	1532
G-9	INSTRUMENTATION	11	1477	1961	2127	2429
G-10	TELEMETRY & REMOTE CONTROL	-	-	827	1169	1450
G-11	AERONAUTICAL & NAVIGATIONAL ELECTRONICS	375	1048	1400	1599	1922
G-12	INFORMATION THEORY	8	771	1154	1403	1707
G-13	INDUSTRIAL ELECTRONICS	-	530	839	1064	1361
G-14	ENGINEERING MANAGEMENT	-	742	1243	1634	2302
G-15	ELECTRON DEVICES	-	479	1086	1359	1871
G-16	ELECTRONIC COMPUTERS	-	1241	2267	2896	3916
G-17	MICROWAVE THEORY & TECHNIQUES	-	471	1144	1630	2148
G-18	MEDICAL ELECTRONICS	-	-	695	898	1101
G-19	COMMUNICATIONS SYSTEMS	-	-	721	966	1340
G-20	ULTRASONICS ENGINEERING	-	-	7	325	456
G-21	COMPONENT PARTS	-	-	-	600	800
G-22	PRODUCTION TECHNIQUES	-	-	-	-	318
G-23	AUTOMATIC CONTROL	-	-	-	-	709
* G-24	MILITARY ELECTRONICS	-	-	-	-	-
		1848	12,482	21,797	28,158	36,562

* NO ASSESSMENT LEVIED.

TABLE XX - DECEASED MEMBERS - 1955

IT IS WITH DEEP REGRET THAT THIS OFFICE RECORDS THE DEATH OF THE FOLLOWING MEMBERS OF THE IRE DURING THE YEAR 1955.

FELLOWS

CLARK, ALVA B. (SM'46, F'56)
NELSON, EDWARD L. (A'19, M'25, F'38)

PANNILL, CHARLES J. (M'13, F'16, L'48)
SHELBY, ROBERT E. (A'29, M'36, SM'43, F'48)

SENIOR MEMBERS

ALBA, CHARLES J. (A'43, SM'53)
BARGER, GEORGE K. (A'43, SM'54)
BEST, NOLAN RICE (SM'53)
BEUSMAN, ROBERT M. (A'29, SM'50)
BRITTIN, FRANK LEWIS (A'27, M'28, SM'43)
BROTT, FRANCIS J. (M'40, SM'43)
BROWN, WALTER N., JR. (S'39, A'42, M'44, SM'45)
CATTELL, GILBERT W. (A'25, SM'46)

GODSHO, ALBERT P. (A'21, M'51, SM'51)
LIDBURY, FRANK AUSTIN (A'27, SM'43)
MEAD, LEO ROY (A'44, SM'46)
ODELL, NEWTON HAYS (A'43, SM'54)
ROCKWELL, GAYNOR O. (SM'53)
ROTHSCHILD, MAX (M'53, SM'53)
SCHLESMAN, CARLETON H. (SM'45)
SHARP, HUBERT (A'48, SM'54)

MEMBERS

BERKEY, WILLIAM E. (M'47)
BRITTAIN, VIRGIL M. (A'43, M'50)
CRAWFORD, BUD (A'45, M'54)
CROSSETT, EDWARD C. (A'27, M'55)
CURTIN, JAMES N. (M'47)
EKREM, T. C. (A'44, M'55)
ELLIS, WILLIAM C. (A'46, M'48)
JACOBS, CHARLES F. (A'41, M'53)

JACQUES, ROBERT B. (M'45)
JENSEN, GEORGE L. (A'29, M'47)
JOHNS, LAWRENCE T. (M'47)
KADOW, ARTHUR C. (A'30, M'55)
LUSTER, ERIC W. (A'54, M'55)
RODENHOUSE, EVERT (M'46)
SHEPPARD, HARRY S. (A'45, M'45)
ZIMMER, H. WARD (M'54)

VOTING ASSOCIATES

ARMAGOST, HAROLD C. (A'30, VA'39)
HAYES, RALPH S. (J'15, A'18, VA'39)

NIKIRK, THOMAS E. (A'35, VA'39)
PIERCE, JAMES F. (A'30, VA'39)
TINNEY, FRANCIS B. (A'24, VA'39)

ASSOCIATES

ARTKIN, W. H., JR. (A'52)
BONGIORNO, ANDREW (A'53)
BORDERS, JAMES B. (A'54)
CANNON, ALAN H. (A'49)
CARLSON, DAVID G. (A'52)
CARTER, HARRY S. (A'54)
CROSMAN, LORING P. (A'52)
DAVIES, RICHARD J. (A'41)
FISHER, FRANCIS J. (A'44)
GLAWSON, THOMAS J. (A'52)
GUETTINGER, PAUL (A'45)
HOLLIDAY, WILLIAM A. (A'54)

JACCARD, RICARDO H. (S'50, A'53)
JOHNSTON, HUGH M. (A'42)
MACK, EDWARD J. (A'46)
MATTSSEN, ERLING A. (A'53)
NESTLERODE, BOYD W. (A'48)
NEWHART, EDWARD L. (A'49)
REITZ, WILLIAM H. (A'51)
ROLFE, HENRY D. (S'52, A'52)
SHEARER, WAYNE G. (A'54)
SHIRLEY, QUEENIE H. (A'45)
TAESCHNER, LAWRENCE (A'45)
WATSON, A. J. (S'53, A'53)
ZAEFFEL, CHARLES G. (A'50)

STUDENTS

BERG, FREDERICK T., JR. (S'52)

GRIM, ROBERT L. (A'47, S'53)
KORNREICH, PHILIPP G. (S'54)

TABLE XXI - IRE NATIONAL CONVENTIONS

THE IRE NATIONAL CONVENTION CONTINUES TO INCREASE IN IMPORTANCE EACH YEAR AND IS NOW INTERNATIONALLY RECOGNIZED AS ONE OF THE LARGEST CONVENTIONS OF ITS KIND IN THE WORLD. THE GROWTH IN CONVENTION ACTIVITIES FOR THE YEARS 1946 THROUGH 1955 IS INDICATED IN THE COMPARISON FIGURES ITEMIZED BELOW:

<u>YEAR</u>	<u>ATTENDANCE</u>	<u>EXHIBITS</u>	<u>NO. OF FIRMS REPRESENTED</u>	<u>NET SPACE OCCUPIED</u>	<u>TOTAL NUMBER OF PAPERS PRESENTED</u>
1946	7,200	135	1,571	13,200'*	88
1947	12,013	177	2,845	20,830'	118
1948	14,459	180	3,059	25,900'	130
1949	15,710	225	3,427	30,700'	144
1950	17,689	253	4,088	33,600'	163
1951	22,919	277	5,082	45,672'	198
1952	28,673	365	6,306	54,246'	211
1953	35,642	412	7,493	63,033'	214
1954	39,302	605	8,799	87,192'	242
1955	42,133	704	9,504	95,782'	248 **

* ESTIMATED.

** PLUS SIX SYMPOSIA.

A CONDENSED SUMMARY OF INCOME AND EXPENSES FOR 1955 IS SHOWN IN TABLE XXII, AND A BALANCE SHEET FOR 1955 IS SHOWN IN TABLE XXIII.

TABLE XXII - SUMMARY OF INCOME AND EXPENSES, 1955

INCOME

ADVERTISING	\$ 911,968.16	
MEMBER DUES AND CONVENTION	964,742.87	
SUBSCRIPTIONS	105,820.90	
SALES ITEMS - BINDERS, EMBLEMS, ETC.	64,046.30	
INVESTMENT INCOME	23,198.71	
MISCELLANEOUS INCOME	1,461.96	
	TOTAL INCOME	\$ 2,071,238.90

EXPENSE

PROCEEDINGS EDITORIAL PAGES	\$ 350,491.85	
ADVERTISING PAGES	485,202.24	
DIRECTORY	170,635.18	
SECTION AND STUDENT BRANCH REBATES	85,642.00	
PROFESSIONAL GROUP EXPENSE	95,901.18	
SALES ITEMS	47,653.11	
GENERAL OPERATIONS	367,279.73	
CONVENTION COST	328,298.64	
	TOTAL EXPENSE	<u>1,931,103.93</u>

RESERVE FOR FUTURE OPERATIONS - GROSS \$ 140,134.97

DEPRECIATION 17,451.16

RESERVE FOR FUTURE OPERATIONS - NET \$ 122,683.81

TABLE XXIII - BALANCE SHEET - DECEMBER 31, 1955

ASSETS

CASH AND ACCOUNTS RECEIVABLE	\$	323,831.77	
INVENTORY		<u>20,533.48</u>	
TOTAL CURRENT ASSETS			\$ 344,365.25
INVESTMENTS AT COST		1,002,000.31	
BUILDINGS AND LAND AT COST		910,812.92	
FURNITURE AND FIXTURES AT COST		191,827.46	
OTHER ASSETS		<u>31,708.67</u>	
TOTAL			<u>2,136,349.36</u>
TOTAL ASSETS			\$ <u>2,480,714.61</u>

LIABILITIES AND SURPLUS

ACCOUNTS PAYABLE			\$ 35,129.77
DEFERRED LIABILITIES	\$	572,909.57	
PROFESSIONAL GROUP FUNDS ON DEPOSIT		<u>120,319.20</u>	<u>693,228.77</u>
TOTAL LIABILITIES			728,358.54
RESERVE FOR DEPRECIATION			76,949.06
SURPLUS DONATED		595,286.61	
SURPLUS		<u>1,080,120.40</u>	
TOTAL SURPLUS			<u>1,675,407.01</u>
TOTAL LIABILITIES AND SURPLUS			\$ <u>2,480,714.61</u>

TABLE XXIV - EDITORIAL DEPARTMENT

IRE PUBLICATION ACTIVITIES CONTINUED TO INCREASE SUBSTANTIALLY DURING 1955. THE PUBLICATION OUTPUT FOR THE YEAR REACHED A NEW HIGH OF 88 ISSUES TOTALING 11,146 PAGES, A 15% INCREASE OVER THE PREVIOUS YEAR.

THE YEAR WAS ALSO MARKED BY SEVERAL NOTEWORTHY IMPROVEMENTS IN SERVICE AND IN THE APPEARANCE OF IRE PUBLICATIONS. THESE INCLUDED THE ISSUANCE OF AN INDEX TO ABSTRACTS AND REFERENCES, PUBLICATION OF REVIEW ARTICLES IN PROCEEDINGS, A NEW COVER FOR PROCEEDINGS AND THE ADOPTION OF LETTERPRESS PRINTING BY AN INCREASING NUMBER OF PROFESSIONAL GROUPS.

PROCEEDINGS OF THE IRE

THE YEAR WAS HIGHLIGHTED BY THE APPEARANCE OF TWO SPECIAL JUMBO ISSUES AND TWO SUPPLEMENTS. THE OCTOBER ISSUE WAS DEVOTED TO SCATTER PROPAGATION, FOLLOWED BY THE SOLID-STATE ELECTRONICS ISSUE IN DECEMBER. THE APRIL AND NOVEMBER ISSUES WERE ACCOMPANIED BY SUPPLEMENTS CONTAINING INDEXES TO ABSTRACTS AND REFERENCES FOR 1954 AND FOR 1946-1953, RESPECTIVELY, THUS GREATLY ENHANCING THE VALUE OF AN ALREADY OUTSTANDING SERVICE.

EXCLUDING THE SUPPLEMENTS, WHICH TOTALLED 248 PAGES, THE NUMBER OF PROCEEDINGS PAGES PUBLISHED DURING 1955 STILL SHOWED A NOTICEABLE INCREASE OVER THE PREVIOUS YEAR, AS CAN BE SEEN IN TABLE I AND FIG. 1. THE NUMBER OF PAPERS, 170, WAS ABOUT THE SAME AS THE PREVIOUS YEAR'S TOTAL OF 177. EIGHT IRE STANDARDS ALSO APPEARED.

TABLE I - VOLUME OF PROCEEDINGS PAGES

	<u>1955</u>	<u>1954</u>	<u>1953</u>	<u>1952</u>
EDITORIAL	2060	1884	1860	1804
ADVERTISING	<u>2372</u>	<u>2072</u>	<u>2146</u>	<u>1800</u>
TOTAL	4432	3956	4006	3604

THE OCTOBER ISSUE DISPLAYED AN ENTIRELY NEW AND MORE MODERN AND ATTRACTIVE FRONT COVER, THE FIRST MAJOR CHANGE IN PROCEEDINGS COVERS IN SIXTEEN YEARS.

THE PROGRAM OF REVIEW ARTICLES, BEGUN AT THE END OF 1954, BEGAN TO BEAR FRUIT WITH THE APPEARANCE OF THREE PAPERS DURING 1955 SUMMARIZING RECENT, IMPORTANT DEVELOPMENTS IN VARIOUS FIELDS OF CURRENT INTEREST.

THE BACKLOG AND PUBLICATION TIME OF PAPERS, WHICH WERE GREATLY REDUCED THE PREVIOUS YEAR, REMAINED AT A SATISFACTORILY LOW POINT. THE BACKLOG OF EXTRA MATERIAL AWAITING PUBLICATION AMOUNTED TO ABOUT ONE-HALF AN ISSUE, AND THE SPEED WITH WHICH PAPERS WERE PUBLISHED AVERAGED FIVE TO SIX MONTHS.

THE VOLUME OF MATERIAL REVIEWED FOR PROCEEDINGS AND THE DISPOSITION MADE WAS APPROXIMATELY THE SAME AS IN THE PREVIOUS YEAR. A TOTAL OF 305 PAPERS COMPRISING 2006 PAGES WAS CONSIDERED. OF THE TOTAL, 40% OF THE PAPERS WERE ACCEPTED, 29% WERE REFERRED TO THE APPROPRIATE TRANSACTIONS FOR CONSIDERATION, AND 31% WERE REJECTED.

TRANSACTIONS

THE YEAR 1955 SAW THE TRANSACTIONS OUTPUT OF THE PROFESSIONAL GROUPS CONTINUE TO INCREASE SUBSTANTIALLY. THE YEAR ALSO SAW AN IMPROVEMENT IN THE TRANSACTIONS THEMSELVES, WITH 6 MORE GROUPS ADOPTING LETTERPRESS COMPOSITION FOR IMPROVED APPEARANCE, BRINGING THE TOTAL TO 12.

THE EDITORIAL DEPARTMENT PUBLISHED 56 ISSUES OF TRANSACTIONS TOTALING 3504 PAGES FOR 21 GROUPS DURING 1955, AS COMPARED WITH THE 1954 TOTALS OF 51 ISSUES TOTALING 3714 PAGES FOR 18 GROUPS. THE APPARENT DECLINE IN TOTAL PAGES IS DUE TO SPACE SAVED BY THE INCREASED USE OF LETTERPRESS COMPOSITION. ACTUALLY, THERE WAS A 20% INCREASE IN THE AMOUNT OF MATERIAL PUBLISHED. A BREAKDOWN OF TRANSACTIONS MATERIAL PUBLISHED IN 1954 AND 1955 IS GIVEN IN TABLE 2.

TABLE 2 - VOLUME OF TRANSACTIONS PAGES

	1955		1954	
	<u>ISSUES</u>	<u>PAGES</u>	<u>ISSUES</u>	<u>PAGES</u>
AERONAUTICAL AND NAVIGATIONAL ELECTRONICS	4	188	4	144
ANTENNAS AND PROPAGATION	4	248	4	188
AUDIO	6	236	6	208
BROADCAST AND TELEVISION RECEIVERS	4	196	4	312
BROADCAST TRANSMISSION SYSTEMS	2	168	0	0
CIRCUIT THEORY	4	396	4	256
COMMUNICATIONS SYSTEMS	1	96	3	414
COMPONENT PARTS	2	144	2	172
ELECTRON DEVICES	4	228	4	524
ELECTRONIC COMPUTERS	4	196	4	228
ENGINEERING MANAGEMENT	1	56	2	132
INDUSTRIAL ELECTRONICS	1	88	0	0
INFORMATION THEORY	3	184	2	404
INSTRUMENTATION	1	188	1	60
MEDICAL ELECTRONICS	2	104	0	0
MICROWAVE THEORY AND TECHNIQUES	6	480	3	244
NUCLEAR SCIENCE	1	20	1	48
RELIABILITY AND QUALITY CONTROL	1	60	2	104
TELEMETRY AND REMOTE CONTROL	3	72	2	56
ULTRASONICS ENGINEERING	1	76	2	116
VEHICULAR COMMUNICATIONS	1	84	1	104
	<hr/>	<hr/>	<hr/>	<hr/>
TOTALS	56	3504	51	3714

IRE CONVENTION RECORD

THE PRACTICE OF PUBLISHING A CONVENTION RECORD CONTAINING PAPERS PRESENTED AT THE IRE NATIONAL CONVENTION, BEGUN IN 1953, WAS CONTINUED. THE 1955 CONVENTION RECORD, CONTAINING 236 PAPERS AND 31 ABSTRACTS TOTALING 1450 PAGES, WAS ISSUED IN TEN PARTS. APPROXIMATELY 30,000 PAID MEMBERS OF PROFESSIONAL GROUPS RECEIVED FREE OF CHARGE A COPY OF THAT PART PERTAINING TO THE FIELD OF INTEREST OF HIS GROUP.

IRE STUDENT QUARTERLY

THE IRE STUDENT QUARTERLY, BEGUN IN 1954, WAS ISSUED 4 TIMES IN 1955 AND TOTALLED 156 PAGES. THE PUBLICATION IS SENT FREE TO ALL IRE STUDENT MEMBERS AS PART OF A PROGRAM OF INCREASED SERVICES TO STUDENTS.

IRE DIRECTORY

THE 1955 IRE DIRECTORY WAS PUBLISHED IN OCTOBER, CONTAINING 976 PAGES INCLUDING COVERS, OF WHICH 373 WERE MEMBERSHIP LISTINGS AND INFORMATION, AND 603 WERE ADVERTISEMENTS AND LISTINGS OF MANUFACTURERS AND PRODUCTS.

CONFERENCE PUBLICATIONS

THREE CONFERENCE PUBLICATIONS, TOTALING 382 PAGES, WERE PUBLISHED BY THE EDITORIAL DEPARTMENT FOR VARIOUS GROUPS. THESE INCLUDED THE PROCEEDINGS OF THE NATIONAL SYMPOSIUM ON QUALITY CONTROL AND RELIABILITY IN ELECTRONICS, PROCEEDINGS OF THE WESTERN JOINT COMPUTER CONFERENCE, AND PROCEEDINGS OF THE WESCON COMPUTER SESSIONS.

VOLUME OF TECHNICAL AND EDITORIAL MATTER
 PUBLISHED IN THE PROCEEDINGS
 1913 TO 1955

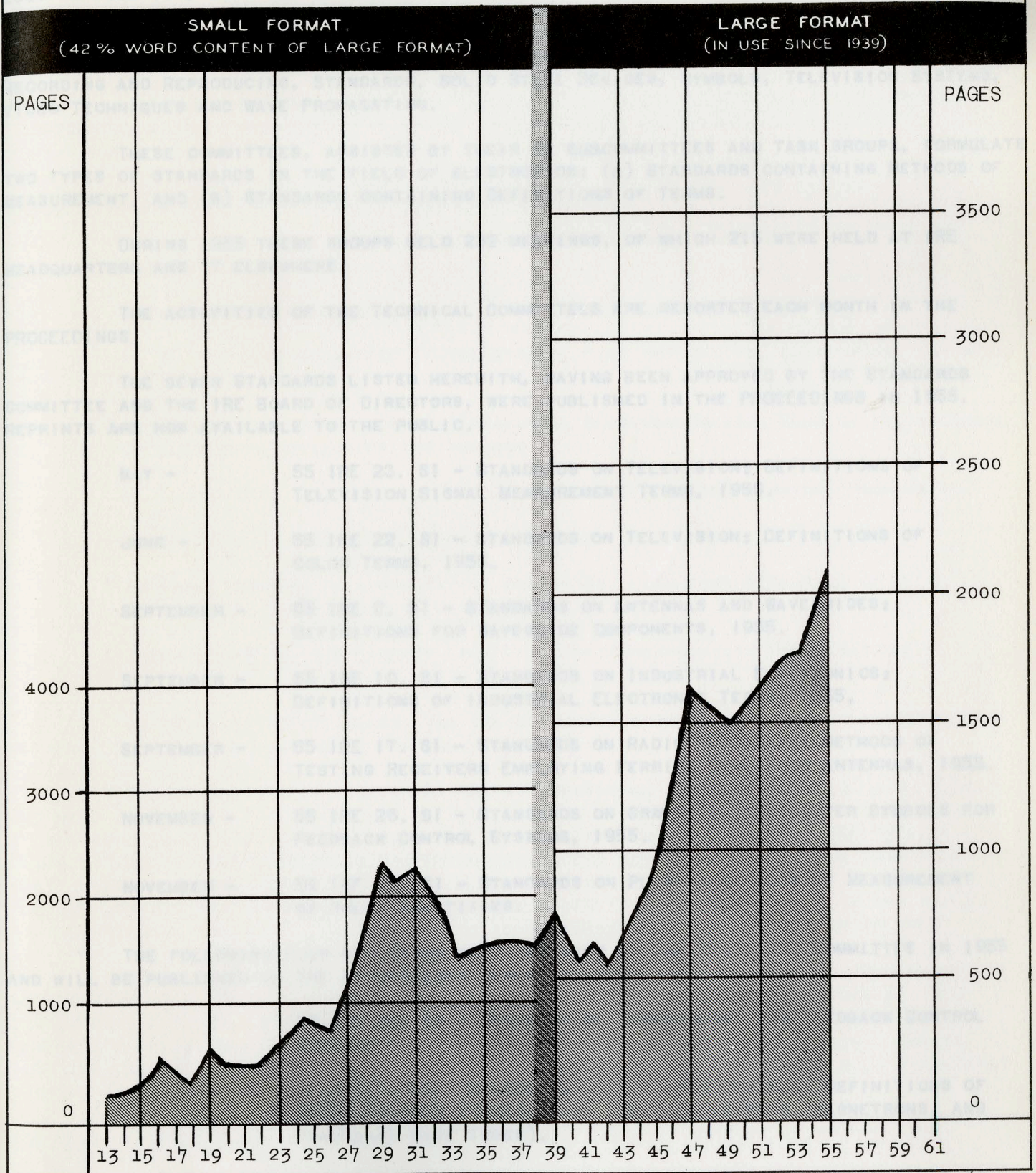


TABLE XXV - TECHNICAL ACTIVITIES

TECHNICAL COMMITTEES. IRE SPONSORS 25 TECHNICAL COMMITTEES COVERING THE FOLLOWING PHASES OF THE FIELD OF ELECTRONICS: ANTENNAS AND WAVEGUIDES, AUDIO TECHNIQUES, CIRCUITS, ELECTROACOUSTICS, ELECTRON TUBES, ELECTRONIC COMPUTERS, FACSIMILE, FEEDBACK CONTROL SYSTEMS, INDUSTRIAL ELECTRONICS, INFORMATION THEORY AND MODULATION SYSTEMS, MEASUREMENTS AND INSTRUMENTATION, MOBILE COMMUNICATION SYSTEMS, NAVIGATION AIDS, NUCLEAR TECHNIQUES, PIEZOELECTRIC CRYSTALS, RADIO FREQUENCY INTERFERENCE, RADIO RECEIVERS, RADIO TRANSMITTERS, RECORDING AND REPRODUCING, STANDARDS, SOLID STATE DEVICES, SYMBOLS, TELEVISION SYSTEMS, VIDEO TECHNIQUES AND WAVE PROPAGATION.

THESE COMMITTEES, ASSISTED BY THEIR 98 SUBCOMMITTEES AND TASK GROUPS, FORMULATE TWO TYPES OF STANDARDS IN THE FIELD OF ELECTRONICS: (A) STANDARDS CONTAINING METHODS OF MEASUREMENT, AND (B) STANDARDS CONTAINING DEFINITIONS OF TERMS.

DURING 1955 THESE GROUPS HELD 232 MEETINGS, OF WHICH 215 WERE HELD AT IRE HEADQUARTERS AND 17 ELSEWHERE.

THE ACTIVITIES OF THE TECHNICAL COMMITTEES ARE REPORTED EACH MONTH IN THE PROCEEDINGS.

THE SEVEN STANDARDS LISTED HEREWITH, HAVING BEEN APPROVED BY THE STANDARDS COMMITTEE AND THE IRE BOARD OF DIRECTORS, WERE PUBLISHED IN THE PROCEEDINGS IN 1955. REPRINTS ARE NOW AVAILABLE TO THE PUBLIC.

- MAY - 55 IRE 23. S1 - STANDARDS ON TELEVISION: DEFINITIONS OF TELEVISION SIGNAL MEASUREMENT TERMS, 1955.
- JUNE - 55 IRE 22. S1 - STANDARDS ON TELEVISION: DEFINITIONS OF COLOR TERMS, 1955.
- SEPTEMBER - 55 IRE 2. S1 - STANDARDS ON ANTENNAS AND WAVEGUIDES: DEFINITIONS FOR WAVEGUIDE COMPONENTS, 1955.
- SEPTEMBER - 55 IRE 10. S1 - STANDARDS ON INDUSTRIAL ELECTRONICS: DEFINITIONS OF INDUSTRIAL ELECTRONIC TERMS, 1955.
- SEPTEMBER - 55 IRE 17. S1 - STANDARDS ON RADIO RECEIVERS: METHODS OF TESTING RECEIVERS EMPLOYING FERRITE CORE LOOP ANTENNAS, 1955.
- NOVEMBER - 55 IRE 26. S1 - STANDARDS ON GRAPHICAL AND LETTER SYMBOLS FOR FEEDBACK CONTROL SYSTEMS, 1955.
- NOVEMBER - 55 IRE 15. S1 - STANDARDS ON PULSES: METHODS OF MEASUREMENT OF PULSE QUANTITIES.

THE FOLLOWING FOUR STANDARDS WERE APPROVED BY THE STANDARDS COMMITTEE IN 1955 AND WILL BE PUBLISHED IN THE PROCEEDINGS EARLY IN 1956:

55 IRE 26. S2 - STANDARD ON TERMINOLOGY FOR FEEDBACK CONTROL SYSTEMS

55 IRE 7. S1 - STANDARDS ON ELECTRON DEVICES: DEFINITIONS OF TERMS RELATED TO MICROWAVE TUBES (KLYSTRONS, MAGNETRONS, AND TRAVELING WAVE TUBES).

55 IRE 7. S2 - STANDARDS ON ELECTRON DEVICES: DEFINITIONS OF TERMS RELATED TO STORAGE TUBES, 1955.

55 IRE 3. SI - STANDARDS ON AUDIO SYSTEMS AND COMPONENTS:
METHODS OF MEASUREMENT; GAIN AMPLITUDE, LOSS, ATTENUATION,
AMPLITUDE-FREQUENCY RESPONSE.

IRE IS DIRECTLY REPRESENTED ON 29 COMMITTEES OF AMERICAN STANDARDS ASSOCIATION AND SPONSORS TWO OF THEM; THE ASA SECTIONAL COMMITTEE ON RADIO AND ELECTRONIC EQUIPMENT, C16, AND THE ASA SECTIONAL COMMITTEE ON SOUND RECORDING, Z57. ONE IRE STANDARD RECEIVED APPROVAL OF THE AMERICAN STANDARDS ASSOCIATION AS AN AMERICAN STANDARD IN 1955, AND IS NOW AVAILABLE TO INTERNATIONAL STANDARDS ORGANIZATIONS.

IRE ACTIVELY PARTICIPATED IN INTERNATIONAL STANDARDIZATION IN 1955 AND WAS REPRESENTED AT THE LONDON MEETING OF THE INTERNATIONAL ELECTROTECHNICAL COMMISSION IN JULY, 1955.

APPOINTED INSTITUTE DELEGATES ON OTHER BODIES

THE IRE APPOINTED DELEGATES TO THE FOLLOWING BODIES FOR A ONE-YEAR PERIOD - MAY 1, 1955 TO APRIL 30, 1956:

INTERNATIONAL SCIENTIFIC RADIO UNION (URSI) EXECUTIVE COMMITTEE.

U. S. NATIONAL COMMITTEE, INTERNATIONAL ELECTROTECHNICAL COMMISSION, ADVISERS ON SYMBOLS.

U. S. NATIONAL COMMITTEE, INTERNATIONAL ELECTROTECHNICAL COMMISSION, ADVISERS ON ELECTRICAL MEASURING INSTRUMENTS.

U. S. NATIONAL COMMITTEE OF THE INTERNATIONAL ELECTROTECHNICAL COMMISSION.

JOINT IRE-AIEE COMMITTEE ON HIGH FREQUENCY MEASUREMENTS.

INTERNATIONAL RADIO CONSULTATIVE COMMITTEE, EXECUTIVE COMMITTEE OF U. S. DELEGATION (CCIR).

JOINT IRE-RETMA-SMPTE-NARTB COMMITTEE FOR INTER-SOCIETY COORDINATION (TELEVISION) (JCIC).

IN ADDITION TO THE ABOVE, THE IRE APPOINTED A REPRESENTATIVE TO SERVE ON THE NATIONAL ELECTRONICS CONFERENCE FOR THE YEAR 1955.

THE ANNUAL SPRING MEETING OF THE INTERNATIONAL SCIENTIFIC RADIO UNION (URSI) WAS HELD ON MAY 2 - 5, 1955 AT THE NATIONAL BUREAU OF STANDARDS IN WASHINGTON, D. C. IT WAS CO-SPONSORED BY THE FOLLOWING IRE PROFESSIONAL GROUPS: ANTENNAS AND PROPAGATION, CIRCUIT THEORY, INSTRUMENTATION AND MICROWAVE THEORY AND TECHNIQUES. THE URSI FALL MEETING WAS HELD ON DECEMBER 15 - 17, 1955 AT THE UNIVERSITY OF FLORIDA, GAINESVILLE. THE URSI SPRING MEETING FOR 1956 HAS BEEN SCHEDULED FOR APRIL 30, MAY 1, 2 AND 3 ALSO AT THE NATIONAL BUREAU OF STANDARDS. THE CO-SPONSORS WILL BE THE SAME AS IN 1955.

NUMEROUS RESPONSES TO THE QUESTIONS UNDER STUDY BY THE VARIOUS CCIR STUDY GROUPS HAVE BEEN RECEIVED IN IRE DURING 1955. A LIST OF ALL MATERIAL RECEIVED FROM THESE ORGANIZATIONS WAS DISTRIBUTED QUARTERLY TO THE CHAIRMEN OF ALL TECHNICAL COMMITTEES, PROFESSIONAL GROUPS AND DEFINITIONS AND MEASUREMENT SUBCOMMITTEES. DURING 1955 THE EXECUTIVE COMMITTEE OF THE U. S. PREPARATORY COMMITTEE OF CCIR HELD 3 MEETINGS AND THE 14 STUDY GROUPS HELD APPROXIMATELY 56 MEETINGS.

THE JOINT TECHNICAL ADVISORY COMMITTEE

THE JOINT TECHNICAL ADVISORY COMMITTEE AND ITS SUBCOMMITTEES HELD A TOTAL OF 24 MEETINGS IN ADDITION TO THE ANNUAL DINNER.

VOLUME XII, THE CUMULATIVE ANNUAL REPORT OF THE JTAC PROCEEDINGS WAS PUBLISHED IN 1955. THIS INCLUDED IN SECTION I - OFFICIAL CORRESPONDENCE BETWEEN THE FEDERAL COMMUNICATIONS COMMISSION AND THE JOINT TECHNICAL ADVISORY COMMITTEE (IRE-RETMA). ALSO INCLUDED WERE OTHER ITEMS OF CORRESPONDENCE PERTINENT TO THE ACTIONS OF THE JTAC. SECTION II OF THE REPORT CONTAINED APPROVED MINUTES OF MEETINGS OF THE JOINT TECHNICAL ADVISORY COMMITTEE FOR THE PERIOD 1 JULY 1954 TO 30 JUNE 1955.

TWO NEW SUBCOMMITTEES WERE FORMED BY JTAC. THE SUBCOMMITTEE ON FORWARD SCATTER PROPAGATION (55.1) WAS FORMED ON FEBRUARY 24, 1955 FOR THE PURPOSE OF REVIEWING AND SUMMARIZING IN FORM SUITABLE FOR INTEGRATED PUBLICATION, ALL AVAILABLE INFORMATION RELATING TO FORWARD SCATTER PROPAGATION AND TO ANALYZE THE TECHNICAL FACTORS THAT RELATE TO THE MOST FAVORABLE INTEGRATION OF THIS FORM OF PROPAGATION INTO THE RADIO SPECTRUM.

ON MAY 26, 1955 A SUBCOMMITTEE ON SPECTRUM UTILIZATION (55.2) WAS FORMED TO STUDY THE FUNDAMENTAL PRINCIPLES OF FREQUENCY ALLOCATION WITH A VIEW FOR BETTER SPECTRUM UTILIZATION.

THE STUDY OF SPURIOUS RADIO EMISSIONS WHICH THE JTAC HAS BEEN MAKING SINCE 1952 AS A RESULT OF THE COMMISSION'S REQUEST CONTINUED. ANOTHER REPORT, SPURIOUS RADIO EMISSION: THE TECHNICAL PRINCIPLES UNDERLYING ITS REGULATION IN THE PUBLIC INTEREST, PREPARED BY THE TWO JTAC INTERFERENCE SUBCOMMITTEES (52.2 AND 54.1) WAS PRESENTED TO THE FCC CHAIRMAN. AN ANALYSIS OF A GROUP OF INTERFERENCE CASES INVESTIGATED BY THE COMMISSION'S STAFF WAS PREPARED BY THE JTAC SUBCOMMITTEE. THIS REPORT OF THE SUBCOMMITTEE, SETTING FORTH THEIR CONCLUSIONS, WAS APPROVED BY JTAC AND TRANSMITTED TO THE FCC.

THE JTAC SUBCOMMITTEE ON R.F. INTERFERENCE FROM ARC WELDERS (54.2) SUBMITTED TO JTAC AN INTERIM REPORT ON CONSIDERATION OF RADIATION FROM HIGH FREQUENCY STABILIZED ARC WELDERS. THIS REPORT WAS TRANSMITTED TO THE FCC CHAIRMAN. AT THE REQUEST OF THE FCC, JTAC ALSO CONSIDERED THE FCC'S NOTICE OF PROPOSED RULE MAKING IN THE MATTER OF THE COMMISSION'S DOCKET NO. 11467, FCC 55-835, 21512, AND PREPARED COMMENTS TO THE QUESTIONS IN THE DOCKET. THESE COMMENTS WERE FORMULATED ON THE BASIS OF INFORMATION RECEIVED DIRECTLY FROM REPRESENTATIVES OF THE JOINT INDUSTRY COMMITTEE ON HIGH FREQUENCY STABILIZED ARC WELDERS IN SEVERAL JOINT MEETINGS. THEY RESULTED FROM SEVERAL CONFERENCES IN WASHINGTON, D.C. AND AT LAGUARDIA AIRPORT, NEW YORK CITY. THE LATTER MEETING WAS ATTENDED BY REPRESENTATIVES OF THE FCC, THE CIVIL AERONAUTICS ADMINISTRATION, THE AIR TRANSPORT ASSOCIATION, THE AMERICAN AIRLINES, AS WELL AS THE ELECTRONIC INDUSTRY.

THE INTERNATIONAL ELECTROTECHNICAL COMMISSION

THE INTERNATIONAL ELECTROTECHNICAL COMMISSION HELD ITS MEETING IN LONDON JULY 1 - 8, 1955. SIXTEEN COUNTRIES WERE REPRESENTED: BELGIUM, CANADA, CZECHOSLOVAKIA, DENMARK, FINLAND, FRANCE, GERMAN FEDERAL REPUBLIC, ITALY, NETHERLANDS, NORWAY, SWEDEN, SWITZERLAND, UNITED KINGDOM, U. S. A., U. S. S. R., AND YUGOSLAVIA.

IRE MEMBERS WERE ACTIVE IN IEC TECHNICAL COMMITTEE 12 ON RADIO COMMUNICATION, AND TECHNICAL SUBCOMMITTEE 12-1 ON MEASUREMENTS.

A LIST OF ALL DOCUMENTS AND MATERIAL RECEIVED IN THE TECHNICAL DEPARTMENT FROM THE IEC WAS DISTRIBUTED TO THE CHAIRMEN OF ALL PROFESSIONAL GROUPS, TECHNICAL COMMITTEES AND SUBCOMMITTEES.

PROFESSIONAL GROUP SYSTEM

GENERAL. THERE ARE 24 PROFESSIONAL GROUPS OPERATING ACTIVELY WITHIN THE IRE. ONE NEW GROUP - THE PROFESSIONAL GROUP ON MILITARY ELECTRONICS - WAS ORGANIZED IN 1955. ITS SCOPE COVERS THE ELECTRONIC SCIENCES, SYSTEMS, ACTIVITIES AND SERVICES GERMANE TO THE REQUIREMENTS OF THE MILITARY. THIS GROUP HAS ALSO UNDERTAKEN TO AID OTHER PROFESSIONAL GROUPS IN THEIR LIAISON WITH AND SERVICES TO THE MILITARY THROUGH JOINT MEETINGS AND ACTIVITIES.

APPROXIMATELY 50% OF ALL IRE MEMBERS HAVE TAKEN ADVANTAGE OF THE PROFESSIONAL GROUP SYSTEM WHICH NOW HAS A TOTAL MEMBERSHIP OF 39,778. 2,074 STUDENT MEMBERS OF THE IRE HAVE JOINED THE GROUPS AT THE SPECIAL STUDENT MEMBER RATE OF \$1.00 ANNUALLY.

23 GROUPS HAVE NOW LEVIED PUBLICATIONS ASSESSMENTS AND 36,562 MEMBERS HAVE PAID THESE ASSESSMENTS AND ARE RECEIVING THE PERTINENT GROUP TRANSACTIONS REGULARLY. IN ADDITION, A LARGE NUMBER OF COMPANY, UNIVERSITY AND PUBLIC LIBRARIES HAVE SUBSCRIBED TO THE TRANSACTIONS OF ALL THE GROUPS AND THERE IS ALSO A DEMAND FOR INDIVIDUAL GROUP SUBSCRIPTIONS AND INDIVIDUAL COPIES OF THE TRANSACTIONS FROM OUTSIDE SOURCES.

IN ADDITION TO SUPPLEMENTARY FINANCIAL AND EDITORIAL ASSISTANCE, THE MANY SERVICES RENDERED BY HEADQUARTERS TO THE GROUPS DURING 1955 INCLUDED 763 MAILINGS TO GROUP MEMBERS.

SYMPOSIA. THE PROCUREMENT OF PAPERS AND MANAGEMENT OF NATIONAL SYMPOSIA ARE NOW ENTIRELY IN THE HANDS OF THE PROFESSIONAL GROUPS. EACH OF THE GROUPS HAD SPONSORED ONE OR MORE TECHNICAL MEETINGS IN THE PAST YEAR IN ADDITION TO TECHNICAL SESSIONS AT THE IRE NATIONAL CONVENTION, THE WESCON, THE NATIONAL ELECTRONICS CONVENTION AND OTHER JOINT MEETINGS, FOR A TOTAL OF 91 MEETINGS OF NATIONAL IMPORT IN 1955 (SEE LIST ATTACHED.)

PUBLICATIONS. 21 GROUPS ARE CURRENTLY PUBLISHING IRE TRANSACTIONS COVERING THEIR SPECIFIC FIELDS OF INTEREST AND TO DATE 167 ISSUES (10,564 PAGES) HAVE APPEARED. TRANSACTIONS WERE FIRST PUBLISHED IN 1951 WHEN THE AUDIO AND AIRBORNE GROUPS ISSUED 6 TRANSACTIONS CONTAINING 98 PAGES. IN 1952 10 GROUPS PUBLISHED 22 TRANSACTIONS CONTAINING 1474 PAGES. IN 1953 15 GROUPS PUBLISHED 32 TRANSACTIONS CONTAINING 1798 PAGES. IN 1954 20 GROUPS PUBLISHED 51 TRANSACTIONS CONTAINING 3714 PAGES. DURING THE PAST YEAR 21 GROUPS PUBLISHED 56 TRANSACTIONS CONTAINING APPROXIMATELY 3508 PAGES.

TWELVE OF THE GROUPS ARE CURRENTLY ON A REGULARLY STATED PUBLICATION SCHEDULE AND THE REMAINING GROUPS ARE WORKING TOWARD THIS GOAL. WHEN THIS HAS BEEN ACCOMPLISHED APPROXIMATELY 100 TRANSACTIONS ISSUES PER YEAR WILL BE PUBLISHED.

13 GROUPS' TRANSACTIONS ARE NOW PRINTED BY LETTER-PRESS AND THE REMAINING GROUPS WILL FOLLOW THIS PRACTICE AS SOON AS THEIR CIRCULATION WARRANTS IT.

IN ADDITION TO IRE TRANSACTIONS, SEVERAL GROUPS ARE ISSUING PROCEEDINGS OF MEETINGS JOINTLY SPONSORED WITH OTHER SOCIETIES, SUCH AS THE EASTERN AND WESTERN JOINT COMPUTER CONFERENCES, THE ELECTRONIC COMPONENTS CONFERENCE, ET AL.

PROFESSIONAL GROUP CHAPTERS. 146 PROFESSIONAL GROUP CHAPTERS HAVE BEEN ORGANIZED BY GROUP MEMBERS IN 37 IRE SECTIONS TO DATE (SEE LIST ATTACHED). CHAPTER GROWTH IS CONTINUING AT A HEALTHY RATE. THE CHAPTERS ARE MEETING REGULARLY AND SPONSORING MEETINGS IN THE FIELDS OF INTEREST OF THEIR ASSOCIATED GROUPS.

PROFESSIONAL GROUP CHAPTERS
ESTABLISHED AS OF DECEMBER 31, 1955

CODE NUMBER	NAME OF GROUP	NO. OF CHAPTERS	SECTION LOCATION	
G-11	AERO. & NAVIG. ELEC.	8	BALTIMORE DALLAS-FORT WORTH DAYTON KANSAS CITY	LOS ANGELES ✓ NEW YORK PHILADELPHIA ST. LOUIS
G-3	ANTENNAS & PROPAGATION	7	ALBUQUERQUE ✓ CHICAGO DENVER LOS ANGELES ✓	ORANGE BELT (L.A.) ✓ PHILADELPHIA WASHINGTON, D.C.
G-1	AUDIO	18	ALBUQUERQUE ✓ BOSTON CHICAGO CINCINNATI CLEVELAND DAYTON HOUSTON KANSAS CITY LOS ANGELES ✓	MILWAUKEE PHILADELPHIA PHOENIX ✓ SAN ANTONIO SAN DIEGO ✓ SAN FRANCISCO ✓ SEATTLE ✓ SYRACUSE WASHINGTON, D.C.
G-23	AUTOMATIC CONTROL	5	BALTIMORE BOSTON DALLAS-FORT WORTH	LOS ANGELES TWIN CITIES
G-8	BROADCAST AND TELEVISION RECEIVERS	2	CHICAGO	LOS ANGELES
G-2	BROADCAST TRANSMISSION SYSTEMS	7	BOSTON CHICAGO CLEVELAND HOUSTON	KANSAS CITY LOS ANGELES PITTSBURGH
G-4	CIRCUIT THEORY	8	ALBUQUERQUE CHICAGO DALLAS-FORT WORTH LOS ANGELES	PHILADELPHIA SEATTLE SYRACUSE URBANA (CHICAGO)
G-19	COMMUNICATIONS SYSTEMS	3	CHICAGO ROME-UTICA	WASHINGTON, D.C.
G-21	COMPONENT PARTS	5	DAYTON LOS ANGELES NEW YORK	PHILADELPHIA WASHINGTON, D.C.
G-15	ELECTRON DEVICES	8	BOSTON-NO. SHORE EMPORIUM, PA. LOS ANGELES MONMOUTH CO., N.J.	NEW YORK PHILADELPHIA SAN FRANCISCO WASHINGTON, D. C.
G-16	ELECTRONIC COMPUTERS	13	AKRON BALTIMORE BOSTON CHICAGO DALLAS-FORT WORTH DETROIT HOUSTON	LOS ANGELES NEW YORK PHILADELPHIA PITTSBURGH SAN FRANCISCO WASHINGTON, D.C.

PROFESSIONAL GROUP CHAPTERS
ESTABLISHED AS OF DECEMBER 31, 1955
(CONTINUED)

CODE NUMBER	NAME OF GROUP	NO. OF CHAPTERS	SECTION LOCATION	
G-14	ENGINEERING MANAGEMENT	9	BOSTON CHICAGO DAYTON LOS ANGELES NEW YORK	PHILADELPHIA SAN FRANCISCO SYRACUSE WASHINGTON, D. C.
G-13	INDUSTRIAL ELECTRONICS	2	CHICAGO	CLEVELAND
G-12	INFORMATION THEORY	4	ALBUQUERQUE LOS ANGELES	WASHINGTON, D.C. WHITE SANDS PG (EL PASO)
G-9	INSTRUMENTATION	5	ATLANTA CHICAGO HOUSTON	LONG ISLAND LOS ANGELES
G-18	MEDICAL ELECTRONICS	6	BUFFALO CONN. VALLEY LOS ANGELES	PHILADELPHIA SAN FRANCISCO WASHINGTON, D.C.
G-17	MICROWAVE THEORY AND TECHNIQUES	10	ALBUQUERQUE BALTIMORE BOSTON BUFFALO CHICAGO	LONG ISLAND LOS ANGELES NORTHERN NEW JERSEY PHILADELPHIA SAN FRANCISCO
G-5	NUCLEAR SCIENCE	8	ALBUQUERQUE BOSTON CHICAGO CONN. VALLEY	DAYTON LOS ALAMOS OAK RIDGE, TENN. (ATLANTA SEC.) WASHINGTON, D.C.
G-22	PRODUCTION TECHNIQUES	3	LOS ANGELES SAN FRANCISCO	WASHINGTON, D.C.
G-7	RELIABILITY AND QUALITY CONTROL	3	CHICAGO LOS ANGELES	WASHINGTON, D.C.
G-10	TELEMETRY AND REMOTE CONTROL	5	ALBUQUERQUE CENTRAL FLORIDA CHICAGO	DAYTON LOS ANGELES
G-6	VEHICULAR COMMUNICATIONS	7	BOSTON CHICAGO DETROIT HOUSTON	LOS ANGELES PORTLAND WASHINGTON, D.C.
<hr/>			<hr/>	
22	GROUPS	146	CHAPTERS	37
				SECTIONS

NATIONAL TECHNICAL MEETINGS, 1955

<u>NAME OF MEETING</u>	<u>SPONSORING PG'S</u>	<u>PLACE</u>	<u>DATE</u>
IRE/AIEE/NBS/URSI CONFERENCE ON HIGH FREQUENCY MEASUREMENTS	PGI	WASHINGTON, D.C.	JANUARY 17-19
RETMA CONFERENCE ON PRINTED CIRCUITS	PGPT	PHILADELPHIA, PA.	JANUARY 20-21
RTCA/IAS/IRE/ION ELECTRONICS IN AVIATION	ANE	NEW YORK, N.Y.	JANUARY 26
SOUTHWESTERN IRE CONFERENCE AND ELECTRONICS SHOW		DALLAS, TEXAS	FEBRUARY 10-12
CONFERENCE ON TRANSISTOR CIRCUITS	IRE; AIEE; CT; UNIV. OF PA.	PHILADELPHIA, PA.	FEBRUARY 17-18
IRE/AIEE/ACM WESTERN COMPUTER CONFERENCE	ELECTRONIC COMPUTERS	LOS ANGELES, CAL.	MARCH 1-3
IRE NATIONAL CONVENTION	ALL PG'S	NEW YORK, N.Y.	MARCH 21-24
IRE/PIB SYMP. ON MODERN NETWORK SYNTHESIS	CT	NEW YORK, N.Y.	APRIL 13-15
IRE 9TH ANNUAL SPRING TECHNICAL CONFERENCE	B&TVR	CINCINNATI, OHIO	APRIL 15-16
IRE SEVENTH REGION TECHNICAL CONFERENCE		PHOENIX, ARIZ.	APRIL 27-29
THIRD ANNUAL SOUTHWEST CONFERENCE ON FEEDBACK CONTROL	IRE; AIEE; SMU	DALLAS, TEXAS	APRIL 28-29
NEW ENGLAND RADIO ENGINEERING MEETING		BOSTON, MASS.	APRIL 29-30
URSI/IRE SPRING MEETING	MT&T; A&P; CT; INSTRU.	WASHINGTON, D.C.	MAY 3-5
NATIONAL CONFERENCE ON AERONAUTICAL AND NAVIGATIONAL ELECTRONICS	ANE & DAYTON SEC.	DAYTON, OHIO	MAY 9-11
IRE SYMPOSIUM ON CIRCUIT ANALYSIS - "URBANA SYMPOSIUM"	PGCT	URBANA, ILL.	MAY 16-18
IRE/AIEE/IAS/ISA NATIONAL TELE-METERING CONFERENCE	TELEMETRY & REMOTE CONTROL	CHICAGO, ILL.	MAY 18-20
IRE/AIEE/RETMA/WCEMA ELEC. COMPONENTS CONFERENCE	PGCP	LOS ANGELES, CAL.	MAY 26-27
IRE MATERIALS SYMPOSIUM		PHILADELPHIA, PA.	JUNE 2-3
IRE/AIEE CONFERENCE ON ELECTRON TUBE RESEARCH		LANSING, MICH.	JUNE 13-15
CONFERENCE ON INSTRU. IN ELECTRO-ENAPHALOGRAPHY	PGME	NEW YORK, N.Y.	JUNE 20

NATIONAL TECHNICAL MEETINGS, 1955
(CONTINUED)

<u>NAME OF MEETING</u>	<u>SPONSORING PG'S</u>	<u>PLACE</u>	<u>DATE</u>
IRE/AIEE CONFERENCE OF SEMICONDUCTOR RESEARCH		PHILADELPHIA, PA.	JUNE 20-22
URSI/UNIVERSITY OF MICHIGAN, INTERNATIONAL SYMPOSIUM	PUBLICATION PGAP	ANN ARBOR, MICH.	JUNE 20-25
WESCON-SAN FRANCISCO	ALL PG'S; S.F. & L.A. SECTIONS	SAN FRANCISCO, CAL.	AUGUST 24-26
TENTH ANNUAL INSTRU. AUTOMATION CONFERENCE & EXHIBIT	PGI	LOS ANGELES, CAL.	SEPTEMBER 12-16
PGNS OAK RIDGE CONFERENCE	PGNS	OAK RIDGE, TENN.	SEPTEMBER 14-17
ANNUAL BTS MEETING	PGBTS	WASHINGTON, D.C.	SEPTEMBER 23-24
PGVC ANNUAL MEETING	PGVC	PORTLAND, ORE.	SEPTEMBER 26-27
IRE/AIEE CONFERENCE ON INDUSTRIAL ELECTRONICS	PGIE	DETROIT, MICH.	SEPTEMBER 28-29
NATIONAL ELECTRONICS CONFERENCE	A&P; ANE; MT&T; ED; UE; CT; AUDIO; INSTRU.	CHICAGO, ILL.	OCTOBER 3-5
IRE/RETMA RADIO FALL MEETING	B&TVR; ED; RQC	SYRACUSE, N.Y.	OCTOBER 17-19
PGED ANNUAL TECH. MEETING	PGED	WASHINGTON, D.C.	OCTOBER 24-25
EAST COAST CONFERENCE ON AERONAUTICAL & NAVIGATIONAL ELECTRONICS	PGANE; BALT. SECTION	BALTIMORE, MD.	OCTOBER 31- NOVEMBER 1
1955 KC 8TH ANNUAL ELECTRONICS CONFERENCE		KANSAS CITY, KAN.	NOVEMBER 3-4
IRE/AIEE/ACM EASTERN JOINT COMP. CONF.	PGEC	BOSTON, MASS.	NOVEMBER 7-9
SYMPOSIUM ON COMM. BY SCATTER TECH.	PGAP (WASH. CHAP.); PGCS	WASHINGTON, D.C.	NOVEMBER 14-15
IRE/AIEE/ISA ELEC. TECH. IN BIOLOGY & MEDICINE	PGME	WASHINGTON, D.C.	NOVEMBER 14-16
SYMPOSIUM ON AERO. COMMUNICATIONS - CIVIL & MILITARY	PGCS & ROME- UTICA SECTION	UTICA, N.Y.	NOVEMBER 21-22
IRE INSTRUMENTATION CONFERENCE & EXHIBIT	PGI & ATLANTA- SECTION	ATLANTA, GA.	NOVEMBER 28-30
EJC NUCLEAR SCIENCE AND ENGINEERING CONGRESS	PGNS; EJC	CLEVELAND, OHIO	DECEMBER 12-17
OPERATIONS RESEARCH SYMPOSIUM	PGEM; PHILA. SECTION & SIAM	PHILADELPHIA, PA.	DECEMBER 14

TABLE XXVI - SECTION ACTIVITIES

WE WERE GLAD TO WELCOME SEVEN NEW SECTIONS INTO THE IRE
 DURING THE PAST YEAR. THEY ARE AS FOLLOWS:

ALBERTA	MARCH 1955
BAY OF QUINTE	MAY 1955
EGYPT	SEPTEMBER 1955
LUBBOCK	MAY 1955
NEWFOUNDLAND	SEPTEMBER 1955
NORTHWEST FLORIDA	MARCH 1955
TOKYO	DECEMBER 1955

THE TOTAL NUMBER OF SECTIONS IS NOW 81. REFERENCE TO TABLE
 XXVII WILL SHOW A MEMBERSHIP INCREASE IN 68 OF THE 81 SECTIONS.

THE NORTHWEST FLORIDA AND AMARILLO-LUBBOCK SUBSECTIONS BECAME
 FULL SECTIONS IN THE YEAR 1955. THE SUBSECTIONS OF SECTIONS NOW TOTAL 20,
 THE FOLLOWING BEING FORMED IN 1955:

FORT HUACHUCA (PHOENIX SECTION)	MARCH 1955
PASADENA (LOS ANGELES SECTION)	JANUARY 1955
PIEDMONT (NORTH CAROLINA-VIRGINIA SECTION)	SEPTEMBER 1955
QUEBEC (MONTREAL SECTION)	NOVEMBER 1955
WESTCHESTER COUNTY (NEW YORK SECTION)	MAY 1955

TABLE XXVII - SECTION MEETINGS AND MEMBERSHIP
(INCLUDING SUBSECTIONS)

SECTIONS	NUMBER OF MEETINGS			MEMBERSHIP OF SECTIONS					
	1955	1954	1953	1955	% ¹	1954	% ¹	1953	% ¹
AKRON	10	11	10	258	+ 5	247	+18	210	+13
* ALBERTA	3	-	-	90	-	-	-	-	-
ALBUQUERQUE- LOS ALAMOS	10	12	9	363	+ 5	345	+14	302	+ 9
ATLANTA	10	12	11	601	+ 4	579	+32	440	-25
BALTIMORE	10	10	10	1034	+17	880	+16	757	+27
* BAY OF QUINTE	2	1-	1-	63	-	-	-	-	-
BEAUMONT- PORT ARTHUR	10	10	10	105	+70	62	- 6	66	+ 7
BINGHAMTON	7	8	7	178	+12	159	+17	136	+ 2
BOSTON	2	4	6	3060	+18	2594	+17	2209	+19
BUENOS AIRES	11	9	15	136	+43	95	- 7	102	+15
BUFFALO-NIAGARA	13	14	9	366	-	366	+ 4	352	+20
CEDAR RAPIDS	10	12	10	315	+20	262	+11	235	+10
CENTRAL FLORIDA	1	6	8	303	+46	207	+67	124	+ 3
CHICAGO	5	6	5	2175	+10	1982	+ 5	1884	+14
CHINA LAKE	11	12	10	79	+ 1	78	+13	69	+ 5
CINCINNATI	6	10	3	307	+ 4	295	- 1	298	+10
CLEVELAND	8	9	9	411	+ 3	401	+13	356	+11
COLUMBUS	10	8	9	174	+18	148	- 9	162	+18
CONNECTICUT VALLEY	14	14	8	905	+10	824	+17	703	+22
DALLAS-FORT WORTH	11	22	10	614	+ 8	571	+17	489	- 2
DAYTON	11	15	11	608	+ 4	583	+ 7	545	+11
DENVER	10	9	9	306	+12	274	+31	209	+ 4
DES MOINES-AMES	5	8	7	118	+31	90	+47	61	- 5
DETROIT	8	5	9	834	+ 4	804	+ 6	759	+ 7
* EGYPT	2	-	-	32	-	-	-	-	-
ELMIRA-CORNING	7	6	4	111	+10	101	+40	72	-

TABLE XXVII - SECTION MEETINGS AND MEMBERSHIP (CONTINUED)
(INCLUDING SUBSECTIONS)

<u>SECTIONS</u>	<u>NUMBER OF MEETINGS</u>			<u>MEMBERSHIP OF SECTIONS</u>					
	<u>1955</u>	<u>1954</u>	<u>1953</u>	<u>1955</u>	<u>%¹</u>	<u>1954</u>	<u>%¹</u>	<u>1953</u>	<u>%¹</u>
EL PASO	11	10	5	226	+17	194	+ 4	187	+13
EMPORIUM	13	16	18	223	+13	197	+17	169	- 8
EVANSVILLE- OWENSBORO	10	9	10	110	+17	94	+ 7	88	+27
FORT WAYNE	11	9	10	200	+13	177	- 1	179	+35
HAMILTON	9	9	9	116	+ 7	109	+ 7	102	+26
HAWAII	11	10	10	84	- 2	86	- 5	91	-
HOUSTON	10	9	10	385	+17	329	+41	234	+14
HUNTSVILLE	11	10	11	269	+38	195	+ 3	189	-
INDIANAPOLIS	7	7	3	384	+26	306	+31	233	+ 2
ISRAEL	5	1	-	53	+29	41	-	-	-
ITHACA	9	4	-	140	+11	126	-	-	-
KANSAS CITY	10	4	9	480	+14	421	+14	369	+13
LITTLE ROCK	9	9	9	94	+49	63	-22	81	+13
LONDON	9	10	10	65	-15	77	+ 3	75	- 6
LONG ISLAND	12	9	8	2754	+ 8	2553	+12	2271	-
LOS ANGELES	24	24	15	4147	+25	3314	+17	2835	+24
LOUISVILLE	4	6	9	97	+13	86	- 2	88	- 9
* LUBBOCK	9	-	-	83	-	-	-	-	-
MIAMI	10	9	9	252	+25	202	-16	242	+16
MILWAUKEE	6	18	8	394	+22	323	+18	273	+ 9
MONTREAL	5	6	8	453	+19	382	+13	339	+25
* NEWFOUNDLAND	1	-	-	35	-	-	-	-	-
NEW ORLEANS	7	9	-	155	+13	137	-	137	-
NEW YORK	23	30	34	4000	+ 7	3747	-31	5445	-22
NORTH CAROLINA- VIRGINIA	8	7	1	652	+48	441	-11	493	+22

TABLE XXVII - SECTION MEETINGS AND MEMBERSHIP (CONTINUED)
(INCLUDING SUBSECTIONS)

<u>SECTIONS</u>	<u>NUMBER OF MEETINGS</u>			<u>MEMBERSHIP OF SECTIONS</u>					
	<u>1955</u>	<u>1954</u>	<u>1953</u>	<u>1955</u>	<u>% 1</u>	<u>1954</u>	<u>% 1</u>	<u>1953</u>	<u>% 1</u>
NORTHERN NEW JERSEY	7	5	-	2542	+ 6	2393	-	-	-
* NORTHWEST FLORIDA	2	-	-	83	-	-	-	-	-
OKLAHOMA CITY	9	7	9	177	+72	103	+ 4	99	+24
OMAHA-LINCOLN	2	4	7	105	+15	91	+10	83	+ 1
OTTAWA	9	7	7	203	+ 4	196	+22	160	+14
PHILADELPHIA	20	32	21	2692	+11	2420	+14	2119	+17
PHOENIX	16	19	8	370	+50	246	+40	177	+32
PITTSBURGH	10	10	11	576	+20	481	+12	431	+ 2
PORTLAND	12	13	15	238	+10	217	+ 4	208	+14
PRINCETON	8	10	10	397	+ 2	391	+15	340	+19
ROCHESTER	9	9	7	238	+16	205	+25	164	+12
ROME-UTICA	9	10	6	295	+24	238	+19	200	-
SACRAMENTO	10	10	9	125	+29	97	+33	73	- 9
ST. LOUIS	2	10	9	405	+11	365	+24	295	+11
SALT LAKE	4	7	1	154	+ 5	147	+19	128	- 3
SAN ANTONIO	15	12	8	237	+ 7	222	+24	179	+16
SAN DIEGO	11	11	15	418	+15	365	+ 7	341	+ 3
SAN FRANCISCO	13	10	15	1634	+18	1384	+19	1165	+ 8
SCHENECTADY	6	6	7	393	+12	350	+ 6	330	+12
SEATTLE	12	5	3	537	- 9	592	+17	505	+ 6
SYRACUSE	7	12	12	618	+ 9	571	- 8	623	-11
* TOKYO	-	-	-	71	-	-	-	-	-
TOLEDO	9	10	9	130	+ 3	127	+13	112	- 1
TORONTO	10	6	6	444	+ 6	421	+12	375	- 2
TULSA	9	8	10	214	+ 3	208	+13	185	+16

TABLE XXVII - SECTION MEETINGS AND MEMBERSHIP (CONTINUED)
(INCLUDING SUBSECTIONS)

SECTIONS	NUMBER OF MEETINGS			MEMBERSHIP OF SECTIONS					
	1955	1954	1953	1955	% ¹	1954	% ¹	1953	% ¹
TWIN CITIES	8	11	10	529	+14	466	+6	439	-22
VANCOUVER	10	10	9	138	-25	184	+14	161	+7
WASHINGTON	10	9	10	2107	+3	2039	+8	1886	+10
WILLIAMSPORT	8	9	7	37	-12	42	-13	48	-16
WINNIPEG	<u>9</u>	<u>10</u>	<u>8</u>	<u>110</u>	<u>+4</u>	<u>79</u>	<u>+13</u>	<u>70</u>	<u>-</u>
TOTALS	717	749	654	45,614	+13.5	40,187	+13	35,626	+13
TOTAL MEMBERSHIP OF IRE				47,388	+13.4	41,778	+12½	37,134	+13

¹ PERCENTAGE INCREASE OR DECREASE BASED ON PRECEDING YEAR.

* SECTIONS FORMED DURING 1955.

TABLE XXVIII - SUBSECTION MEETINGS AND MEMBERSHIP, 1955

<u>SUBSECTION</u>	<u>PARENT SECTION</u>	<u>MEMBERSHIP</u>	<u>NO OF MEETINGS</u>
BERKSHIRE COUNTY	CONNECTICUT VALLEY	75	8
BUENAVENTURA	LOS ANGELES	115	8
CENTRE COUNTY	EMPORIUM	103	3
CHARLESTON	ATLANTA	67	2
EAST BAY	SAN FRANCISCO	396	6
ERIE	BUFFALO-NIAGARA	35	4
FORT HUACHUCA	PHOENIX	65	3
LANCASTER	PHILADELPHIA	206	7
MID-HUDSON	NEW YORK	376	5
MONMOUTH	NEW YORK	454	8
ORANGE BELT	LOS ANGELES	272	5
PALO ALTO	SAN FRANCISCO	793	5
PASADENA	LOS ANGELES	465	2
PIEDMONT	NORTH CAROLINA-VIRGINIA	155	2
QUEBEC	MONTREAL	47	-
RICHLAND	SEATTLE	70	2
TUCSON	PHOENIX	103	7
U.S.A.F.I.T.	DAYTON	67	2
WESTCHESTER COUNTY	NEW YORK	478	4
WICHITA	KANSAS CITY	83	4
			87

TABLE XXIX - PROFESSIONAL GROUP CHAPTER MEETINGS, 1955

SECTION	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G20	G21	G22	G23	G24	TOTAL	
AKRON																4									4	
ALBUQUERQUE-																										
LOS ALAMOS	3		4	5	5							6					4									27
ATLANTA (OAK RIDGE)					8																					8
BOSTON	4	2			3									3	3	5	4							1		25
BUFFALO-NIAGARA																			1							1
CHICAGO	3	1	4	11	5	2	1	5	2	4			2	4		3	1		2							50
CINCINNATI	3																									3
CLEVELAND	4												1													5
CONNECTICUT VALLEY					6																					6
DALLAS-FORT WORTH											2					3								2		7
DAYTON	1									3	1			4										1		10
DENVER			2																							2
DETROIT						7										3										10
HOUSTON	2	2				1			2																	7
LOS ANGELES	1		5	5		4	3	2		8		5		4	2	5	1	4					4	5		58
NEW YORK											3			2	2	4							3			14
NORTHERN NEW JERSEY																	9									9
PHILADELPHIA	5		1	2							2			3	4	4	1					2				24
SAN ANTONIO	2																									2
SAN DIEGO	1																									1
SAN FRANCISCO													4	7				3								14
SEATTLE	1			5																						6
SYRACUSE	1			3										9												13
WASHINGTON	3		2		1	3	2					2		2	6	3			3		3	1				31
	34	5	18	31	28	17	6	7	4	15	8	13	3	35	24	34	20	8	5	-	13	1	8	-		337

GRAND TOTAL: 337

TABLE xxx - STUDENT BRANCHES, 1955

THE NUMBER OF STUDENT BRANCHES FORMED DURING 1955 WAS 9, 1 OF WHICH OPERATES AS AN IRE BRANCH, AND 8 OF WHICH OPERATE AS JOINT IRE-AIEE BRANCHES. THE TOTAL NUMBER OF STUDENT BRANCHES IS NOW 130, 103 OF WHICH OPERATE AS JOINT IRE-AIEE BRANCHES.

FOLLOWING IS A LIST OF THE STUDENT BRANCHES:

<u>SCHOOL</u>	<u>BRANCH</u>	<u>FORMED 1955</u>
AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS	IRE-AIEE	
AKRON, UNIVERSITY OF	IRE-AIEE	
ALABAMA POLYTECHNIC INSTITUTE	IRE	
ALBERTA, UNIVERSITY OF	IRE-AIEE	
ARIZONA, UNIVERSITY OF	IRE-AIEE	
ARKANSAS, UNIVERSITY OF	IRE-AIEE	
BRITISH COLUMBIA, UNIVERSITY OF	IRE-AIEE	
BROOKLYN, POLYTECHNIC INSTITUTE OF	IRE-AIEE (DAY DIV.)	
BROOKLYN, POLYTECHNIC INSTITUTE OF	IRE-AIEE (EVE. DIV.)	
BROWN UNIVERSITY	IRE-AIEE	
BUCKNELL UNIVERSITY	IRE-AIEE	
CALIFORNIA INSTITUTE OF TECHNOLOGY	IRE-AIEE	
CALIFORNIA STATE POLYTECHNIC COLLEGE	IRE	
CALIFORNIA, UNIVERSITY OF	IRE-AIEE	
CARNEGIE INSTITUTE OF TECHNOLOGY	IRE-AIEE	
CASE INSTITUTE OF TECHNOLOGY	IRE	
CINCINNATI, UNIVERSITY OF	IRE-AIEE	
CLARKSON COLLEGE OF TECHNOLOGY	IRE-AIEE	
CLEMSON COLLEGE	IRE-AIEE	12/5/55
COLORADO, UNIVERSITY OF	IRE-AIEE	
COLORADO AGRICULTURAL AND MECHANICAL COLLEGE	IRE-AIEE	
COLUMBIA UNIVERSITY	IRE-AIEE	

TABLE XXXIII - STUDENT BRANCHES, 1955 (CONT'D.)

<u>SCHOOL</u>	<u>BRANCH</u>	<u>FORMED 1955</u>
CONNECTICUT, UNIVERSITY OF	IRE-AIEE	
COOPER UNION	IRE-AIEE	
CORNELL UNIVERSITY	IRE-AIEE	
DAYTON, UNIVERSITY OF	IRE-AIEE	
DELAWARE, UNIVERSITY OF	IRE-AIEE	
DENVER, UNIVERSITY OF	IRE-AIEE	
DETROIT, UNIVERSITY OF	IRE-AIEE	
DREXEL INSTITUTE OF TECHNOLOGY	IRE-AIEE	
FENN COLLEGE	IRE	
FLORIDA, UNIVERSITY OF	IRE-AIEE	
GEORGE WASHINGTON UNIVERSITY	IRE-AIEE	
GEORGIA INSTITUTE OF TECHNOLOGY	IRE	
ILLINOIS INSTITUTE OF TECHNOLOGY	IRE	
ILLINOIS, UNIVERSITY OF	IRE-AIEE	
IOWA, STATE UNIVERSITY OF	IRE	
IOWA STATE COLLEGE	IRE-AIEE	
JOHN CARROLL UNIVERSITY	IRE	
JOHNS HOPKINS UNIVERSITY	IRE-AIEE	
KANSAS STATE COLLEGE	IRE	
KANSAS, UNIVERSITY OF	IRE-AIEE	
KENTUCKY, UNIVERSITY OF	IRE	
LAFAYETTE COLLEGE	IRE-AIEE	
LEHIGH UNIVERSITY	IRE-AIEE	
LOUISIANA STATE UNIVERSITY	IRE-AIEE	
LOUISVILLE, UNIVERSITY OF	IRE-AIEE	
MAINE, UNIVERSITY OF	IRE	
MANHATTAN COLLEGE	IRE-AIEE	

TABLE XXX - STUDENT BRANCHES, 1955 (CONTINUED)

<u>SCHOOL</u>	<u>BRANCH</u>	<u>FORMED 1955</u>
MARQUETTE UNIVERSITY	IRE-AIEE	
MARYLAND, UNIVERSITY OF	IRE-AIEE	
MASSACHUSETTS, UNIVERSITY OF	IRE-AIEE	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	IRE-AIEE	
MIAMI-, UNIVERSITY OF	IRE	
MICHIGAN COLLEGE OF MINING AND TECHNOLOGY	IRE-AIEE	
MICHIGAN STATE UNIVERSITY	IRE-AIEE	
MICHIGAN, UNIVERSITY OF	IRE-AIEE	
MINNESOTA, UNIVERSITY OF	IRE-AIEE	
MISSISSIPPI STATE COLLEGE	IRE	
MISSOURI SCHOOL OF MINES AND METALLURGY, UNIVERSITY OF	IRE-AIEE	
MISSOURI, UNIVERSITY OF	IRE-AIEE	
MONTANA STATE COLLEGE	IRE-AIEE	
NEBRASKA, UNIVERSITY OF	IRE-AIEE	
NEVADA, UNIVERSITY OF	IRE-AIEE	6/7/55
NEWARK COLLEGE OF ENGINEERING	IRE	
NEW HAMPSHIRE, UNIVERSITY OF	IRE-AIEE	
NEW MEXICO COLLEGE OF AGRICULTURE AND MECHANIC ARTS	IRE-AIEE	
NEW MEXICO, UNIVERSITY OF	IRE-AIEE	
NEW YORK, COLLEGE OF THE CITY OF	IRE	
NEW YORK UNIVERSITY (DAY DIV.)	IRE	
NEW YORK UNIVERSITY (EVE. DIV.)	IRE-AIEE	
NORTH CAROLINA STATE COLLEGE	IRE-AIEE	
NORTH DAKOTA, UNIVERSITY OF	IRE-AIEE	
NORTH DAKOTA AGRICULTURAL COLLEGE	IRE-AIEE	
NORTHEASTERN UNIVERSITY	IRE-AIEE	

TABLE XXXI - STUDENT BRANCHES, 1955 (CONT'D.)

<u>SCHOOL</u>	<u>BRANCH</u>	<u>FORMED 1955</u>
NORTHWESTERN UNIVERSITY	IRE-AIEE	
NORWICH UNIVERSITY	IRE-AIEE	11/1/55
NOTRE DAME, UNIVERSITY OF	IRE-AIEE	
OHIO STATE UNIVERSITY	IRE-AIEE	
OHIO UNIVERSITY	IRE-AIEE	
OKLAHOMA, UNIVERSITY OF	IRE-AIEE	6/7/55
OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE	IRE-AIEE	
OREGON STATE COLLEGE	IRE	
PENNSYLVANIA, UNIVERSITY OF	IRE-AIEE	
PENNSYLVANIA STATE UNIVERSITY, THE	IRE-AIEE	
PITTSBURGH, UNIVERSITY OF	IRE	
PRATT INSTITUTE	IRE-AIEE	
PRINCETON UNIVERSITY	IRE-AIEE	
PURDUE UNIVERSITY	IRE-AIEE	
RENSSELAER POLYTECHNIC INSTITUTE	IRE-AIEE	
RHODE ISLAND, UNIVERSITY OF	IRE-AIEE	
RICE INSTITUTE	IRE-AIEE	6/7/55
ROSE POLYTECHNIC INSTITUTE	IRE-AIEE	4/12/55
RUTGERS UNIVERSITY	IRE-AIEE	
ST. LOUIS UNIVERSITY	IRE	
SAN DIEGO STATE COLLEGE	IRE	
SAN JOSE STATE COLLEGE	IRE	
SEATTLE UNIVERSITY	IRE	
SOUTH CAROLINA, UNIVERSITY OF	IRE-AIEE	
SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY	IRE	
SOUTHERN CALIFORNIA, UNIVERSITY OF	IRE-AIEE	
SOUTHERN METHODIST UNIVERSITY	IRE-AIEE	

TABLE XXXI - STUDENT BRANCHES, 1955 (CONT'D.)

<u>SCHOOL</u>	<u>BRANCH</u>	<u>FORMED 1955</u>
STANFORD UNIVERSITY	IRE-AIEE	
STEVENS INSTITUTE OF TECHNOLOGY	IRE-AIEE	
SWARTHMORE COLLEGE	IRE-AIEE	12/5/55
SYRACUSE UNIVERSITY	IRE-AIEE	
TENNESSEE, UNIVERSITY OF	IRE	
TEXAS, UNIVERSITY OF	IRE-AIEE	
TEXAS COLLEGE OF ARTS AND INDUSTRIES	IRE	
TEXAS TECHNOLOGICAL COLLEGE	IRE-AIEE	
TOLEDO, UNIVERSITY OF	IRE-AIEE	
TORONTO, UNIVERSITY OF	IRE-AIEE	
TUFTS COLLEGE	IRE-AIEE	
TULANE UNIVERSITY	IRE-AIEE	
U.S. NAVAL POSTGRADUATE SCHOOL	IRE	2/1/55
UTAH STATE AGRICULTURAL COLLEGE	IRE	
UTAH, UNIVERSITY OF	IRE-AIEE	
VERMONT, UNIVERSITY OF	IRE-AIEE	
VILLANOVA UNIVERSITY	IRE-AIEE	
VIRGINIA POLYTECHNIC INSTITUTE	IRE-AIEE	
VIRGINIA, UNIVERSITY OF	IRE-AIEE	
WASHINGTON UNIVERSITY	IRE-AIEE	
WASHINGTON, STATE COLLEGE OF	IRE-AIEE	9/7/55
WASHINGTON, UNIVERSITY OF	IRE-AIEE	
WAYNE UNIVERSITY	IRE-AIEE	
WEST VIRGINIA UNIVERSITY	IRE-AIEE	
WISCONSIN, UNIVERSITY OF	IRE-AIEE	
WORCESTER POLYTECHNIC INSTITUTE	IRE-AIEE	
WYOMING, UNIVERSITY OF	IRE-AIEE	
YALE UNIVERSITY	IRE-AIEE	