

REPORT OF THE SECRETARY

1954

TO THE BOARD OF DIRECTORS,  
THE INSTITUTE OF RADIO ENGINEERS

GENTLEMEN:

ANOTHER ANNUAL REPORT IS HEREWITH SUBMITTED WHICH DEPICTS THE STATUS OF IRE AFFAIRS AT THE END OF THE YEAR JUST CLOSED.

YOUR ATTENTION IS DIRECTED TO THE INCREASES IN MEMBERSHIP, BOTH OF THE IRE AND OF THE PROFESSIONAL GROUPS, WHICH ARE LARGER PERCENTAGE-WISE THAN NORMALLY. THE NATIONAL CONVENTION WAS THE MOST EXTENSIVE HELD BOTH FOR ATTENDANCE AND THE NUMBER OF EXHIBITORS. IN FACT, ALL ACTIVITIES, AS THE REPORT SHOWS, ARE AT AN INCREASED TEMPO.

THE HOUSING SITUATION FOR THE HEADQUARTERS STAFF AND FOR COMMITTEE ACTIVITIES WAS ALLEVIATED DURING 1954 BY THE COMPLETION OF THE NEW BUILDING AND ITS FACILITIES AT 5 EAST 79TH STREET, ADJACENT TO THE EXISTING BUILDING.

RESPECTFULLY SUBMITTED,

HARADEN PRATT  
SECRETARY

JANUARY 24, 1955

## INDEX OF TABLE NUMBERS

TABLE	I	TOTAL MEMBERSHIP DISTRIBUTION BY GRADES, 1954	PAGE 3
TABLE	II	TOTAL MEMBERSHIP DISTRIBUTION BY GRADE BY PERCENTAGE, 1954	PAGE 3
TABLE	III	COMPARISON OF TOTAL MEMBERSHIP DISTRIBUTION BY GRADES, 1952 - 1954	PAGE 4
TABLE	IV	ANALYSIS OF TOTAL MEMBERSHIP DISTRIBUTION BY GRADES	PAGE 4
TABLE	V	FIVE-YEAR ANALYSIS OF U. S. AND FOREIGN MEMBERSHIP	PAGE 4
TABLE	VI	DISTRIBUTION OF U. S. MEMBERS, 1953 AND 1954	PAGE 5
TABLE	VII	DISTRIBUTION OF U. S. MEMBERS BY GRADE AND STATE, 1954	PAGE 7
TABLE	VIII	DISTRIBUTION OF MEMBERSHIP BY REGION, BY SECTION, BY GRADE, 1954	PAGE 9
TABLE	IX	DISTRIBUTION OF FOREIGN MEMBERS, 1953 AND 1954	PAGE 13
TABLE	X	DISTRIBUTION OF FOREIGN MEMBERS BY GRADE AND COUNTRY, 1954	PAGE 14
TABLE	XI	GEOGRAPHICAL AND GRADE BREAKDOWN, CANADA, U. S. POSSESSIONS AND OVERSEAS MILITARY MEMBERSHIP, 1954	PAGE 17
TABLE	XII	MEMBERSHIP CHANGES, BY GRADES, 1954	PAGE 18
TABLE	XIII	ANALYSIS OF TRANSFERS, BY GRADES, 1954	PAGE 18
TABLE	XIV	ANALYSIS OF HIGHER GRADE APPLICATIONS, 1954	PAGE 19
TABLE	XV	LIFE MEMBERS, BY GRADES, 1954	PAGE 20
TABLE	XVI	YEARLY MEMBERSHIP, 1912 - 1954 (NUMERICAL) (FIGURE 2, GRAPHICAL)	PAGE 21
TABLE	XVII	PROFESSIONAL GROUP MEMBERSHIP, BY GROUPS, 1953 AND 1954	PAGE 22
TABLE	XVIII	DECEASED MEMBERS, 1954	PAGE 23
TABLE	XIX	IRE NATIONAL CONVENTIONS, 1946-1954	PAGE 24
TABLE	XX	SUMMARY OF INCOME AND EXPENSES, 1954	PAGE 25
TABLE	XXI	BALANCE SHEET, DECEMBER 31, 1954	PAGE 26
TABLE	XXII	EDITORIAL DEPARTMENT ACTIVITIES, 1954	PAGE 27
TABLE	XXIII	TECHNICAL DEPARTMENT ACTIVITIES, 1954	PAGE 31
TABLE	XXIV	SECTION ACTIVITIES, 1954	PAGE 39
TABLE	XXV	SECTION MEETINGS AND MEMBERSHIP, 1954	PAGE 40
TABLE	XXVI	SUBSECTION MEETINGS, 1954	PAGE 43
TABLE	XXVII	PROFESSIONAL GROUP CHAPTER MEETINGS, 1954	PAGE 44
TABLE	XXVIII	STUDENT BRANCH ACTIVITIES, 1954	PAGE 45

GRADE	
FELLOW	480
SENIOR MEMBER	4,720
MEMBER	5,107

VOTING ASSOCIATE (\$15)	750
ASSOCIATE (\$15)	6,244
ASSOCIATE (\$10)	17,799

MEMBERSHIP

AT THE END OF THE YEAR 1954, THE MEMBERSHIP OF THE INSTITUTE, INCLUDING ALL GRADES, WAS 41,778, AN INCREASE OF 4,644, OR 12½% OVER THE PREVIOUS YEAR. THE 4,644 MEMBER INCREASE IN 1954 WAS MORE THAN 4,260 AND 3,466, THE INCREASES FOR 1953 AND 1952 RESPECTIVELY. THE PERCENTAGE INCREASE WAS 13% IN 1953 AND 12% IN 1952. THE MEMBERSHIP TREND FROM 1912 TO DATE IS SHOWN GRAPHICALLY IN FIGURE 2, AND NUMERICALLY IN TABLE XVI.

ACTUAL MEMBERSHIP FIGURES FOR 1952, 1953 AND 1954 ARE SHOWN IN TABLE III. OF THE 24,043 NON-VOTING ASSOCIATES, 6,244 HAVE BEEN IN THAT GRADE FOR MORE THAN FIVE YEARS.

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

MEMBER	5.1
NOTING ASSOCIATE (\$15)	1.9
ASSOCIATE (\$15)	15.0
ASSOCIATE (\$10)	42.0
ASSOCIATE (TOTAL)	58.9
STUDENT	13.3

TABLE I - TOTAL MEMBERSHIP DISTRIBUTION BY GRADES AS OF 12/31/54

<u>GRADE</u>	AS OF DEC. 31, 1954		AS OF DEC. 31, 1953		AS OF DEC. 31, 1952	
	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL
FELLOW	489	1.2	489	1.2	375	1.2
SENIOR MEMBER	4,780	11.4	4,780	11.3	3,866	10.8
MEMBER	6,107	14.6	6,107	14.3	4,617	14.0
VOTING ASSOCIATE (\$15)	803					
ASSOCIATE (\$15)	6,244					
ASSOCIATE (\$10)	17,799					
ASSOCIATE (TOTAL)			<u>24,846</u>	36,222		
STUDENT				<u>5,556</u>		
GRAND TOTAL				41,778		

TABLE II - TOTAL MEMBERSHIP DISTRIBUTION BY GRADE BY PERCENTAGE AS OF 12/31/54

<u>GRADE</u>	<u>PERCENTAGE</u>
FELLOW	1.2
SENIOR MEMBER	11.4
MEMBER	14.6
VOTING ASSOCIATE (\$15)	1.9
ASSOCIATE (\$15)	15.0
ASSOCIATE (\$10)	42.6
ASSOCIATE (TOTAL)	59.5
STUDENT	13.3

TABLE III - COMPARISON OF TOTAL MEMBERSHIP DISTRIBUTION BY GRADES, 1952 - 1954

GRADE	AS OF DEC. 31, 1954		AS OF DEC. 31, 1953		AS OF DEC. 31, 1952	
	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL
FELLOW	489	1.2	425	1.2	379	1.2
SENIOR MEMBER	4,780	11.4	4,170	11.2	3,566	10.8
MEMBER	6,107	14.6	5,307	14.3	4,617	14.0
ASSOCIATE	24,846***	59.5	22,702**	61.1	20,029*	61.0
STUDENT	<u>5,556</u>	13.3	<u>4,530</u>	12.2	<u>4,283</u>	13.0
TOTALS	41,778		37,434		32,874	

TABLE IV - ANALYSIS OF TOTAL MEMBERSHIP DISTRIBUTION BY GRADES

	F	SM	M	VA	A(\$15)	A(\$10)	S	TOTAL
UNITED STATES	439	4382	5439	753	5707	16,452	5346	38,518
U. S. POSSESSIONS	-	9	21	7	30	78	3	148
U. S. OVERSEAS MILITARY	-	19	48	-	20	163	7	257
	<u>439</u>	<u>4410</u>	<u>5508</u>	<u>760</u>	<u>5757</u>	<u>16,693</u>	<u>5356</u>	<u>38,923</u>
CANADA	19	138	273	17	187	644	171	1,449
FOREIGN	<u>31</u>	<u>232</u>	<u>326</u>	<u>26</u>	<u>300</u>	<u>462</u>	<u>29</u>	<u>1,406</u>
TOTALS	489	4780	6107	803	6244	17,799	5556	41,778

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

	1954	1953	1952	1951	1950
TOTAL	41,778	37,134	32,874	29,408	29,002
U. S. & POSSESSIONS	38,923	34,505	30,535	27,202	26,708
FOREIGN (INCLUDING CANADA)	2,855	2,629	2,339	2,206	2,294
PER CENT FOREIGN	6.8	7.1	7.1	7.5	7.9

\* INCLUDES 919 VOTING ASSOCIATES

\*\* INCLUDES 856 VOTING ASSOCIATES

\*\*\* INCLUDES 803 VOTING ASSOCIATES

TABLE VI - DISTRIBUTION OF U. S. MEMBERS, 1953 AND 1954  
(INCLUDING U. S. POSSESSIONS AND U. S. OVERSEAS MILITARY)

<u>1954</u>	<u>1953</u>		<u>GAIN</u>	<u>LOSS</u>
199	142	ALABAMA	57	
243	177	ARIZONA	66	
63	80	ARKANSAS		17
5404	4,509	CALIFORNIA	895	
246	189	COLORADO	57	
690	581	CONNECTICUT	109	
58	43	DELAWARE	15	
765	767	DISTRICT OF COLUMBIA		2
471	403	FLORIDA	68	
255	214	GEORGIA	41	
26	29	IDAHO		3
1866	1,747	ILLINOIS	119	
664	615	INDIANA	49	
360	301	IOWA	59	
240	192	KANSAS	48	
167	167	KENTUCKY	--	
145	138	LOUISIANA	7	
80	59	MAINE	21	
1591	1,433	MARYLAND	158	
2491	2,107	MASSACHUSETTS	384	
872	796	MICHIGAN	76	
366	337	MINNESOTA	29	
45	54	MISSISSIPPI		9
481	428	MISSOURI	53	
34	30	MONTANA	4	
78	75	NEBRASKA	3	
9	6	NEVADA	3	
83	58	NEW HAMPSHIRE	25	
3843	3,465	NEW JERSEY	378	
468	410	NEW MEXICO	58	
7901	7,025	NEW YORK	876	
313	279	NORTH CAROLINA	34	
41	38	NORTH DAKOTA	3	
1782	1,660	OHIO	122	
310	285	OKLAHOMA	25	
213	199	OREGON	14	
2314	2,106	PENNSYLVANIA	208	
88	83	RHODE ISLAND	5	
71	68	SOUTH CAROLINA	3	
38	41	SOUTH DAKOTA		3
169	145	TENNESSEE	24	
1123	1,016	TEXAS	107	
122	103	UTAH	19	
31	33	VERMONT		2
742	661	VIRGINIA	81	
560	480	WASHINGTON	80	
65	58	WEST VIRGINIA	7	
305	292	WISCONSIN	13	
27	27	WYOMING	--	
	<u>1954</u>	<u>1953</u>	<u>NET GAIN</u>	
TOTAL	38,518	34,151	4,367	

TABLE VI - DISTRIBUTION OF U. S. MEMBERS, 1953 AND 1954 - CONT'D.  
 (INCLUDING U. S. POSSESSIONS AND U. S. OVERSEAS MILITARY)

UNITED STATES POSSESSIONS

<u>1954</u>	<u>1953</u>		<u>GAIN</u>	<u>LOSS</u>
30	27	ALASKA	3	
1	7	CANAL ZONE		6
5	1	CANTON ISLAND	4	
2	1	MARIANA ISLANDS	1	
23	20	PUERTO RICO	3	
86	91	TERRITORIES OF HAWAII		5
<u>1</u>	<u>1</u>	VIRGIN ISLANDS	<u>--</u>	<u>---</u>
148	148		11	11

U. S. OVERSEAS MILITARY

257	206	U. S. OVERSEAS MILITARY	51	
-----	-----	-------------------------	----	--

TABLE VII - DISTRIBUTION OF U. S. MEMBERS BY GRADE AND STATE  
AS OF DECEMBER 31, 1954

<u>STATE</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>VA(\$15)</u>	<u>A(\$15)</u>	<u>A(\$10)</u>	<u>S</u>	<u>TOTAL</u>
ALABAMA	-	4	15	-	12	89	79	199
ARIZONA	-	23	51	2	21	125	21	243
ARKANSAS	2	9	7	-	6	25	14	63
CALIFORNIA	48	583	743	97	863	2404	666	5404
COLORADO	1	31	44	1	29	82	58	246
CONNECTICUT	9	80	85	6	119	304	87	690
DELAWARE	-	4	7	-	11	18	18	58
DIST. OF COLUMBIA	28	133	113	34	106	289	62	765
FLORIDA	2	44	79	16	67	172	91	471
GEORGIA	-	14	39	2	28	76	96	255
IDAHO	-	-	5	-	4	15	2	26
ILLINOIS	14	229	286	56	373	763	145	1866
INDIANA	5	74	63	7	98	270	147	664
IOWA	3	31	51	3	44	162	66	360
KANSAS	-	13	28	1	29	120	49	240
KENTUCKY	-	12	26	1	22	83	23	167
LOUISIANA	1	8	24	3	14	67	28	145
MAINE	3	6	5	1	9	16	40	80
MARYLAND	11	198	298	36	242	716	90	1591
MASSACHUSETTS	37	240	344	40	336	984	510	2491
MICHIGAN	3	61	86	26	140	374	182	872
MINNESOTA	3	21	50	4	57	166	65	366
MISSISSIPPI	-	2	5	-	5	21	12	45
MISSOURI	1	40	69	3	49	191	128	481
MONTANA	-	-	4	1	5	13	11	34
NEBRASKA	-	3	20	4	13	24	14	78
NEVADA	-	1	-	-	2	4	2	9

TABLE VII - DISTRIBUTION OF U. S. MEMBERS BY GRADE AND STATE (CONT'D.)  
AS OF DECEMBER 31, 1954

<u>STATE</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>VA(\$15)</u>	<u>A(\$15)</u>	<u>A(\$10)</u>	<u>S</u>	<u>TOTAL</u>
NEW HAMPSHIRE	-	11	11	3	14	23	21	83
NEW JERSEY	107	678	556	114	598	1521	269	3843
NEW MEXICO	1	50	85	4	54	233	41	468
NEW YORK	116	899	988	138	1161	3511	1088	7901
NORTH CAROLINA	-	26	41	7	33	145	61	313
NORTH DAKOTA	-	-	3	1	4	8	25	41
OHIO	8	206	275	29	255	814	195	1782
OKLAHOMA	1	27	46	2	19	169	46	310
OREGON	2	18	30	3	31	71	58	213
PENNSYLVANIA	19	294	320	51	329	1006	295	2314
RHODE ISLAND	-	2	10	2	13	48	13	88
SOUTH CAROLINA	-	5	12	2	11	38	3	71
SOUTH DAKOTA	-	-	6	-	4	12	16	38
TENNESSEE	1	15	18	4	27	75	29	169
TEXAS	5	123	241	16	151	484	103	1123
UTAH	-	6	5	-	8	42	61	122
VERMONT	-	4	1	1	2	8	15	31
VIRGINIA	4	103	128	16	127	277	87	742
WASHINGTON	2	32	66	6	88	262	104	560
WEST VIRGINIA	-	2	6	-	9	32	16	65
WISCONSIN	2	16	41	9	62	96	79	305
WYOMING	-	1	3	1	3	4	15	27
<b>TOTALS</b>	<b>439</b>	<b>4382</b>	<b>5439</b>	<b>753</b>	<b>5707</b>	<b>16452</b>	<b>5346</b>	<b>38,518</b>

TABLE VIII - DISTRIBUTION OF MEMBERSHIP BY REGION, BY SECTION, BY GRADE  
AS OF DECEMBER 31, 1954

<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>
1	BOSTON	39	253	346	45	1366	545	2594	3418
	CONN. VALLEY	9	84	95	9	457	99	753	
	BERKSHIRE COUNTY SUB.	-	6	14	-	49	2	71	
2	LONG ISLAND	33	302	363	43	1551	261	2553	9043
	NEW YORK	50	307	269	67	1703	632	3028	
	MID HUDSON SUB.	1	16	31	2	223	18	291	
	MONMOUTH SUB.	8	77	76	11	245	11	428	
	NO. NEW JERSEY	63	410	341	78	1321	180	2393	
	SCHENECTADY	8	58	43	8	174	59	350	
3	BALTIMORE	7	93	167	12	547	54	880	6171
	NORTH CAROLINA- VIRGINIA	1	29	52	6	229	124	441	
	PHILADELPHIA	24	292	305	57	1365	206	2249	
	LANCASTER SUB.	1	30	29	4	96	11	171	
	PRINCETON	23	83	58	5	174	48	391	
	WASHINGTON	36	328	337	72	1143	123	2039	
4	AKRON	1	12	52	4	158	20	247	4213
	BINGHAMTON	-	5	34	2	111	7	159	
	BUFFALO-NIAGARA	2	30	45	4	232	19	332	
	ERIE SUB.	-	3	6	2	19	4	34	
	CLEVELAND	1	42	63	7	228	60	401	
	COLUMBUS	1	13	13	4	94	23	148	
	DETROIT	3	59	84	24	487	147	804	
	ELMIRA-CORNING	-	14	20	-	63	4	101	
	EMPORIUM	1	28	34	3	43	3	112	
	CENTRE COUNTY SUB.	1	12	10	-	36	26	85	
	ITHACA	3	11	11	1	59	41	126	

TABLE VIII - DISTRIBUTION OF MEMBERSHIP BY REGION, BY SECTION, BY GRADE (CONT'D.)  
AS OF DECEMBER 31, 1954

<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>
4	PITTSBURGH	5	44	45	6	283	98	481	
	ROCHESTER	2	34	39	6	109	15	205	
	ROME-UTICA	-	29	46	1	156	6	238	
	SYRACUSE	15	95	85	4	317	55	571	
	TOLEDO	-	7	15	2	83	20	127	
	WILLIAMSPORT	-	3	14	-	16	9	42	
5	CEDAR RAPIDS	2	26	40	-	168	26	262	5878
	CHICAGO	15	236	286	57	1184	204	1982	
	CINCINNATI	3	33	42	10	160	47	295	
	DAYTON	2	100	83	4	304	26	519	
	USAFIT SUB.	-	3	8	-	52	1	64	
	DENVER	1	33	47	2	118	73	274	
	DES MOINES-AMES	1	6	11	2	33	37	90	
	EVANSVILLE-OWENSBORO	-	10	8	-	70	6	94	
	FORT WAYNE	3	28	21	3	115	7	177	
	INDIANAPOLIS	1	32	31	2	146	94	306	
	KANSAS CITY	1	30	38	3	182	73	327	
	WICHITA SUB.	-	2	15	-	67	10	94	
	LITTLE ROCK	2	9	7	-	31	14	63	
	LOUISVILLE	-	4	16	-	48	18	86	
	MILWAUKEE	2	16	37	9	151	108	323	
	OMAHA-LINCOLN	-	3	22	5	42	19	91	
	ST. LOUIS	-	25	53	3	182	102	365	
TWIN CITIES	3	21	64	5	263	110	466		
6	ATLANTA	-	29	54	6	170	191	450	2815
	CHARLESTON SUB.	-	4	10	1	49	2	66	
	NORTHWEST FLORIDA SUB.	-	3	11	-	45	4	63	

TABLE VIII - DISTRIBUTION OF MEMBERSHIP BY REGION, BY SECTION, BY GRADE (CONT'D.)  
AS OF DECEMBER 31, 1954

<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>
6	BEAUMONT-PT. ARTHUR	-	14	18	1	38	1	62	
	CENTRAL FLORIDA	-	25	37	2	105	38	207	
	DALLAS-FT. WORTH	3	59	100	10	297	40	509	
	AMARILLO- LUBBOCK SUB.	-	-	9	-	25	28	62	
	HOUSTON	1	31	71	5	154	67	329	
	HUNTSVILLE	1	6	18	1	145	24	195	
	MIAMI	2	17	30	14	89	50	202	
	NEW ORLEANS	1	8	23	2	74	29	137	
	OKLAHOMA CITY	-	7	34	1	46	15	103	
	SAN ANTONIO	1	24	37	1	96	63	222	
TULSA	1	20	12	1	142	32	208		
7	ALBUQUERQUE- LOS ALAMOS	1	49	64	3	198	30	345	7065
	EL PASO	-	7	37	1	136	13	194	
	HAWAII	-	7	10	5	63	1	86	
	INYOKERN	-	5	15	-	56	2	78	
	LOS ANGELES	19	340	422	50	1866	279	2976	
	BUENAVENTURA SUB.	1	7	18	1	84	5	116	
	ORANGE BELT SUB.	2	32	40	2	146	-	222	
	PHOENIX	-	13	30	1	93	3	140	
	TUCSON SUB.	-	10	21	2	55	18	106	
	PORTLAND	2	18	30	3	105	59	217	
	SACRAMENTO	-	5	16	6	62	8	97	
	SALT LAKE	-	6	9	-	69	63	147	
	SAN DIEGO	-	36	59	10	233	27	365	
	SAN FRANCISCO	4	29	70	12	226	48	389	
EAST BAY SUB.	6	27	29	6	185	79	332		
PALO ALTO SUB.	16	103	72	10	352	110	663		

22 379 486 53 2096 284 3314

246  
1384

TABLE VIII - DISTRIBUTION OF MEMBERSHIP BY REGION, BY SECTION, BY GRADE (CONT'D.)

AS OF DECEMBER 31, 1954

REGION	SECTION	F	SM	M	VA	A	S	SECTION TOTAL	REGION TOTAL
7	SEATTLE	2	31	60	6	335	110	544	
	RICHLAND SUB.	-	1	12	1	31	3	48	572
8	HAMILTON	1	17	25	1	58	7	109	1448
	LONDON	-	5	18	-	40	14	77	
	MONTREAL	8	37	87	6	203	41	382	
	OTTAWA	5	23	38	1	118	11	196	
	TORONTO	6	43	72	7	256	37	421	
	VANCOUVER	1	7	17	2	109	48	184	
	WINNIPEG	-	6	16	-	44	13	79	
-	BUENOS AIRES	2	11	6	-	66	10	95	95
-	ISRAEL	-	1	9	-	31	-	41	41
<b>TOTALS</b>		<b>460</b>	<b>4539</b>	<b>5737</b>	<b>775</b>	<b>23148</b>	<b>5528</b>	<b>40,187</b>	<b>40,187</b>

1954 1953

GRAND TOTAL 2,855 2,400

TABLE IX - DISTRIBUTION OF FOREIGN MEMBERS - 1953 - 1954

<u>1954</u>	<u>1953</u>		<u>1954</u>	<u>1953</u>	
6	7	ARABIA	131	135	INDIA
93	103	ARGENTINA	2	2	INDONESIA
66	68	AUSTRALIA	1	1	IRAN
1	1	BAHAMA ISLANDS	1		IRAQ
13	11	BELGIUM	5	6	IRELAND
3	3	BERMUDA	41	31	ISRAEL
1	1	BOLIVIA	39	31	ITALY
66	59	BRAZIL	61	41	JAPAN
2	2	BRITISH GUIANA	2	1	KOREA
6	3	BRITISH WEST INDIES	4	6	LEBANON
4	4	BURMA	4	8	MALAYA
1449	1282	CANADA	2	2	MALTA
3	3	CEYLON	29	31	MEXICO
5	4	CHILE	6	7	MOROCCO
1	1	CHINA	22	18	NETHERLANDS
12	12	COLOMBIA		1	NETHERLANDS WEST INDIES
2	1	COSTA RICA	11	15	NEW ZEALAND
20	20	CUBA	13	10	NORWAY
	1	CURACO	15	19	PAKISTAN
2	2	CYPRUS	1	2	PANAMA, REPUBLIC OF
4	3	CZECHOSLOVAKIA	2		PERSIAN GULF
27	23	DENMARK	8	7	PERU
2	2	DOMINICAN REPUBLIC	11	6	PHILIPPINE ISLANDS
1	1	ECUADOR	5	3	PORTUGAL
16	19	EGYPT	11	14	SCOTLAND
	1	EL SALVADOR	44	53	SOUTH AFRICA
303	298	ENGLAND	16	11	SPAIN
1	1	ETHIOPIA	4	4	STRAIT SETTLEMENTS
1	1	FIJI ISLANDS	55	48	SWEDEN
5	4	FORMOSA	52	49	SWITZERLAND
71	58	FRANCE	3	4	SYRIA
16	11	GERMANY	1		TASMANIA
7	6	GREECE	4	2	THAILAND
1	3	GUATEMALA	11	11	TURKEY
	1	HONDURAS	3	4	URUGUAY
4	5	HONG KONG	16	15	VENEZUELA
1	1	HUNGARY	1	2	WALES
1	1	ICELAND	2	2	YUGOSLAVIA

	<u>1954</u>	<u>1953</u>
GRAND TOTAL	2,855	2,629

TABLE X - DISTRIBUTION OF FOREIGN MEMBERS BY GRADE AND COUNTRY  
AS OF DECEMBER 31, 1954

<u>COUNTRY</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>VA(\$15)</u>	<u>A(\$15)</u>	<u>A(\$10)</u>	<u>S</u>	<u>TOTAL</u>
ARABIA	-	1	-	-	2	3	-	6
ARGENTINA	2	11	6	-	24	40	10	93
AUSTRALIA	2	17	12	7	19	9	-	66
BAHAMA ISLANDS	-	-	1	-	-	-	-	1
BELGIUM	-	1	3	1	1	7	-	13
BERMUDA	-	1	1	-	1	-	-	3
BOLIVIA	-	-	-	-	-	1	-	1
BRAZIL	-	8	12	1	17	24	4	66
BRITISH GUIANA	-	-	1	-	-	1	-	2
BRITISH WEST INDIES	-	-	2	-	2	2	-	6
BURMA	-	-	3	-	-	1	-	4
CANADA	19	138	273	17	187	644	171	1,449
CEYLON	-	-	1	-	-	2	-	3
CHILE	-	-	1	-	2	2	-	5
CHINA	-	-	-	-	-	1	-	1
COLOMBIA	-	-	5	-	2	5	-	12
COSTA RICA	-	1	1	-	-	-	-	2
CUBA	-	3	1	1	6	9	-	20
CYPRUS	-	-	2	-	-	-	-	2
CZECHOSLOVAKIA	-	-	1	-	2	1	-	4
DENMARK	1	3	3	-	13	7	-	27
DOMINICAN REPUBLIC	-	1	-	-	-	1	-	2
ECUADOR	-	-	1	-	-	-	-	1
EGYPT	-	3	7	-	2	4	-	16
ENGLAND	14	76	86	10	71	41	5	303
ETHIOPIA	-	-	-	-	-	1	-	1

TABLE X - DISTRIBUTION OF FOREIGN MEMBERS BY GRADE AND COUNTRY (CONT'D.)  
AS OF DECEMBER 31, 1954

<u>COUNTRY</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>VA(\$15)</u>	<u>A(\$15)</u>	<u>A(\$10)</u>	<u>S</u>	<u>TOTAL</u>
FIJI ISLANDS	-	1	-	-	-	-	-	1
FORMOSA	-	-	1	-	1	3	-	5
FRANCE	2	21	17	1	8	22	-	71
GERMANY	1	9	2	-	1	3	-	16
GREECE	-	-	2	-	-	5	-	7
GUATEMALA	-	-	-	-	-	1	-	1
HONG KONG	-	1	1	-	2	-	-	4
HUNGARY	-	-	-	-	1	-	-	1
ICELAND	-	-	-	-	1	-	-	1
INDIA	1	21	37	-	21	51	-	131
INDONESIA	-	1	-	-	1	-	-	2
IRAN	-	-	-	-	-	1	-	1
IRAQ	-	-	1	-	-	-	-	1
IRELAND	-	1	-	-	2	2	-	5
ISRAEL	-	1	9	-	3	28	-	41
ITALY	-	5	6	-	14	14	-	39
JAPAN	2	4	9	-	2	43	1	61
KOREA	-	1	1	-	-	-	-	2
LEBANON	-	-	-	-	3	1	-	4
MALAYA	-	-	2	-	-	2	-	4
MALTA	-	-	2	-	-	-	-	2
MEXICO	1	2	5	2	4	11	4	29
MOROCCO	-	1	4	-	-	1	-	6
NETHERLANDS	1	6	5	-	5	5	-	22
NEW ZEALAND	-	1	2	1	5	2	-	11
NORWAY	-	1	1	1	1	9	-	13
PAKISTAN	-	3	8	-	1	3	-	15
PANAMA, REPUBLIC OF	-	-	-	-	1	-	-	1

TABLE X - DISTRIBUTION OF FOREIGN MEMBERS BY GRADE AND COUNTRY (CONT'D.)  
AS OF DECEMBER 31, 1954

<u>COUNTRY</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>VA(\$15)</u>	<u>A(\$15)</u>	<u>A(\$10)</u>	<u>S</u>	<u>TOTAL</u>
PERSIAN GULF	-	-	1	-	1	-	-	2
PERU	-	1	2	-	1	4	-	8
PHILIPPINE ISLANDS	-	-	2	-	2	7	-	11
PORTUGAL	-	1	2	-	1	-	1	5
SCOTLAND	-	-	4	-	2	5	-	11
SOUTH AFRICA	-	5	18	-	14	7	-	44
SPAIN	-	2	3	-	2	6	3	16
STRAIT SETTLEMENTS	-	-	1	-	3	-	-	4
SWEDEN	2	4	11	-	15	23	-	55
SWITZERLAND	2	8	8	-	12	22	-	52
SYRIA	-	1	-	-	-	2	-	3
TASMANIA	-	-	1	-	-	-	-	1
THAILAND	-	-	1	-	-	3	-	4
TURKEY	-	-	1	1	1	7	1	11
URUGUAY	-	-	2	-	1	-	-	3
VENEZUELA	-	4	3	-	4	5	-	16
WALES	-	-	-	-	-	1	-	1
YUGOSLAVIA	-	-	1	-	-	1	-	2
<b>TOTALS</b>	<b>50</b>	<b>370</b>	<b>599</b>	<b>43</b>	<b>487</b>	<b>1106</b>	<b>200</b>	<b>2,855</b>

GRAND TOTAL: 2,855

TABLE XI - GEOGRAPHICAL AND GRADE BREAKDOWN - CANADA, U.S. POSSESSIONS AND  
OVERSEAS MILITARY MEMBERSHIP  
AS OF DECEMBER 31, 1954

	<u>CANADIAN</u>							<u>TOTAL</u>
	<u>F</u>	<u>SM</u>	<u>M</u>	<u>VA(\$15)</u>	<u>A(\$15)</u>	<u>A(\$10)</u>	<u>S</u>	
HAMILTON	1	17	25	1	10	48	7	109
LONDON	-	5	18	-	11	29	14	77
MONTREAL	6	37	87	6	57	149	41	383
OTTAWA	5	23	38	1	29	89	11	196
TORONTO	6	43	72	7	57	199	37	421
VANCOUVER	1	7	17	2	17	92	48	184
WINNIPEG	-	6	16	-	6	38	13	79
TOTALS	19	138	273	17	187	644	171	1449

	<u>U. S. POSSESSIONS</u>							
ALASKA	-	-	5	-	8	16	1	30
CANAL ZONE	-	-	-	1	-	-	-	1
CANTON ISLAND	-	-	1	-	1	3	-	5
MARIANA ISLANDS	-	-	-	-	2	-	-	2
PUERTO RICO	-	2	4	1	5	10	1	23
HAWAII	-	7	10	5	14	49	1	86
VIRGIN ISLANDS	-	-	1	-	-	-	-	1
TOTALS	-	9	21	7	30	78	3	148

	<u>OVERSEAS MILITARY</u>							
P.O. SAN FRANCISCO, CALIF.	-	7	15	-	7	74	4	107
P.O. SEATTLE, WASH.	-	-	4	-	1	14	-	19
P.O. NEW YORK, N.Y.	-	12	29	-	12	75	3	131
P.O. NORFOLK, VA.	-	-	-	-	-	-	-	-
TOTALS	-	19	48	-	20	163	7	257

TABLE XII - MEMBERSHIP CHANGES, BY GRADES, IN 1954

<u>GAINS</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>S</u>	<u>TOTAL</u>
ELECTIONS	1	288	782	2551	3459	7081
REINSTATEMENTS		36	86	603	83	808
TRANSFERS TO	75	480	421	1287		2263
<b>TOTAL GAIN</b>	<b>76</b>	<b>804</b>	<b>1289</b>	<b>4441</b>	<b>3542</b>	<b>10,152</b>

LOSSES

NEW ELECTIONS (UNPAID)		2	16	81	3	102
TRANSFERS FROM		74	201	698	1290	2263
VOIDED ELECTIONS				11		11
DEATHS	5	16	11	36	4	72
RESIGNATIONS		12	46	427	120	605
DELINQUENTS	7	90	215	1044	1099	2455
<b>TOTAL LOSS</b>	<b>12</b>	<b>194</b>	<b>489</b>	<b>2297</b>	<b>2516</b>	<b>5508</b>
<b>NET GAIN</b>	<b>64</b>	<b>610</b>	<b>800</b>	<b>2144</b>	<b>1026</b>	<b>4644</b>

THE NET GAIN OF 4,644 SHOWN ABOVE COMPARES WITH 4,260 FOR 1953.

TABLE XIII - ANALYSIS OF TRANSFERS, BY GRADES, 1954

<u>TRANSFERS FROM</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>S</u>	<u>TOTAL</u>
TRANSFERS TO F	74		1		75
TRANSFERS TO SM		201	279		480
TRANSFERS TO M			418	3	421
TRANSFERS TO A				1287	1287
<b>TOTAL</b>	<b>74</b>	<b>201</b>	<b>698</b>	<b>1290</b>	<b>2263</b>

TABLE XIV - ANALYSIS OF HIGHER-GRADE APPLICATIONS FOR 1954

	<u>APPROVED</u>	<u>REJECTED</u>
ADMISSION APPLICATIONS		
SENIOR MEMBER	288	24
MEMBER	782	72
LEAVING ASSOCIATE		
TRANSFER APPLICATIONS		
SENIOR MEMBER	480	19
MEMBER	421	21

TABLE XV - LIFE MEMBERS, BY GRADES, AS OF DECEMBER 31, 1954

<u>YEAR</u>	<u>MEMBER GRADE</u>	<u>DOMESTIC</u>	<u>CANADIAN</u>	<u>FOREIGN</u>	<u>TOTAL</u>
	FELLOW	32	1	1	34
	SENIOR MEMBER	17	-	1	18
	MEMBER	-	-	-	-
	VOTING ASSOCIATE	15	-	-	15
	ASSOCIATE	1	-	1	2
	<b>TOTAL</b>	<b>65</b>	<b>1</b>	<b>3</b>	<b>69</b>

TABLE XVI - YEARLY MEMBERSHIP, 1912 - 1954

<u>YEAR</u>	<u>HIGHER GRADE</u>	<u>STUDENT</u>	<u>YEARLY INCREASE</u> (DECREASE)	<u>% INCREASE</u> (DECREASE)	<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

TABLE XVII - PROFESSIONAL GROUP MEMBERSHIP, BY GROUPS, 1953, 1954  
(PAID MEMBERSHIP ONLY)

<u>CODE</u>	<u>GROUP</u>	<u>1954</u>	<u>1953</u>	<u>NET GAIN</u>
G-1	AUDIO	2510	2147	363
G-2	BROADCAST TRANSMISSION SYSTEMS	729	661	68
G-3	ANTENNAS & PROPAGATION	1344	1219	125
G-4	CIRCUIT THEORY	2565	2151	414
G-5	NUCLEAR SCIENCE	802	109	693
G-6	VEHICULAR COMMUNICATIONS	669	584	85
G-7	RELIABILITY & QUALITY CONTROL	520	476	44
G-8	BROADCAST & TELEVISION RECEIVERS	1349	1106	243
G-9	INSTRUMENTATION	2127	1961	166
G-10	TELEMETRY & REMOTE CONTROL	1169	827	342
G-11	AERONAUTICAL & NAVIGATIONAL ELECTRONICS	1599	1400	199
G-12	INFORMATION THEORY	1403	1154	249
G-13	INDUSTRIAL ELECTRONICS	1064	839	225
G-14	ENGINEERING MANAGEMENT	1634	1243	391
G-15	ELECTRON DEVICES	1359	1086	273
G-16	ELECTRONIC COMPUTERS	2896	2267	629
G-17	MICROWAVE THEORY & TECHNIQUES	1630	1144	486
G-18	MEDICAL ELECTRONICS	898	695	203
G-19	COMMUNICATIONS SYSTEMS	966	721	245
G-20	ULTRASONICS ENGINEERING	325	7	318
G-21	COMPONENT PARTS	600	--	600
* G-22	PRODUCTION TECHNIQUES	--	--	--
* G-23	AUTOMATIC CONTROL	--	--	--
		<hr/>	<hr/>	<hr/>
		28,158	21,797	6,361

\* NO ASSESSMENT LEVIED BY GROUP.

TABLE XVIII - DECEASED MEMBERS - 1954

IT IS WITH DEEP REGRET THAT THIS OFFICE RECORDS THE DEATH OF THE FOLLOWING MEMBERS OF THE IRE DURING THE YEAR 1954.

FELLOWS

ARMSTRONG, EDWIN H. (A'14, F'27)  
BRENECKE, CORNELIUS G. (A'36, M'46, F'51)  
KILGOUR, CHARLES E. (A'25, M'30, SM'43, F'51)

MOUROMTSEFF, ILIA E. (A'34, SM'45, F'47)  
RUSH, WALTER ALBERT (M'13, F'24, L'48)

SENIOR MEMBERS

AINSWORTH, ARCHER L. (A'22, M'33, SM'43)  
ALLISON, JOHN L. (SM'47)  
BABCOCK, STUART M. (A'36, VA'39, SM'52)  
BERANEK, JEROME A. (S'41, A'42, M'46, SM'48)  
BERNREUTER, HERBERT A. (SM'49)  
BURGESS, WARREN B. (A'20, M'31, SM'43)  
FRY, HOWARD M. (A'46, SM'51)  
GARRISON, MILLARD M. (M'35, SM'43)

GUNZBOURG, PAUL M. (M'43, SM'43)  
HANCOCK, GEORGE N. (M'43, SM'43)  
HERZ, ARMIN J. (M'49, SM'53)  
HOLBORN, FREDERICK (M'23, SM'53)  
JONES, WALTER ROY (A'26, M'32, SM'43)  
LEWIS, OLIVER IRVING (M'45, SM'45)  
PARKER, THOMAS J. (SM'46)  
TULLER, WILLIAM G. (S'37, A'40, M'45, SM'48)

MEMBERS

COOK, WILLIAM F. (M'46)  
DESUTTER, DAVID H. (M'52)  
GOLDIN, HYMAN C. (A'27, M'44)  
GROOM, BRYAN (M'46)  
MACK, PEARCY W. (M'47)  
MELNICOE, SAMUEL A. (A'41, M'46)

PATREMIO, SALVATORE R. (M'50)  
ROBERTSON, RAYMOND D. (A'42, M'51)  
SLAVIN, SAMUEL (A'29, M'48)  
TAVANIOTIS, CONSTANTINE (A'47, M'48)  
WILLIAMS, ROGER W. (M'50)

VOTING ASSOCIATES

PORTER, ROLAND GUYER (A'26, VA'39)

ASSOCIATES

BELLE ISLE, ARMAND G. (A'41)  
BONK, GEORGE V. (S'52, A'54)  
BRISCOE, WILLIAM C. (A'52)  
BUDELMAN, FREDERICK T. (A'41)  
CLARK, BAYARD H. (A'46)  
CROCKETT, JOHN E. (S'49, A'50)  
DAUM, JOHN A. (A'51)  
FANYO, WAYNE P. (A'51)  
FERRELL, DEWEY (A'46)  
FLEER, WILLIAM A. (A'52)  
GARLAND, O. K. (A'40)  
GREEN, HARRY (A'48)  
HAMMOND, ARTHUR L. (A'44)  
HANSON, LOUIS W. (A'53)  
HARRIS, WILLIAM C. (A'47)  
HARTMANN, CHARLES L. (A'44)  
HELMERS, EDGAR C. (A'52)  
HOPF, EDGAR W. (A'49)

HURFORD, ALVIN C., JR. (A'53)  
JONES, ROBERT E. (S'45, A'47)  
JORGENSEN, ANDREW C. (A'45)  
KRAUS, RUSSELL B. (A'52)  
MARTIN, WILLIAM H. (A'49)  
MARTINEZ, CLEMENT I. (A'45)  
NEUMAN, LEONARD J. (A'44)  
PAUL, FRED HERMAN (A'53)  
ROGERS, KEITH SINCLAIR (A'47)  
TEETER, ALBERT A. (A'24)  
TINDALL, JOHN RONALD (A'52)  
VASSIAN, HERBERT J. (S'49, A'54)  
VOEGLIN, ELMO (A'37)  
WHITE, ROBERT H. (A'40)  
WINKLER, WILLIAM H. (S'49, A'53)  
WOLCOTT, GLENN W. (A'51)  
WOODMAN, ALLAN J. (A'53)

STUDENTS

CARRELL, SANFORD G. (S'52)  
HERZER, MELVIN (S'53)

NYE, HENRY A., JR. (S'53)  
STEWART, PHIL M. (S'52)

TABLE XIX - 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 1954 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	560	8,799	87,192*	242

\* ESTIMATED

A CONDENSED SUMMARY OF INCOME AND EXPENSES FOR 1954 IS SHOWN IN TABLE XX, AND A BALANCE SHEET FOR 1954 IS SHOWN IN TABLE XXI.

TABLE XX - SUMMARY OF INCOME AND EXPENSES, 1954

INCOME

ADVERTISING	\$ 774,765.52	
MEMBER DUES AND CONVENTION	846,892.17	
SUBSCRIPTIONS	107,113.67	
SALES ITEMS - BINDERS, EMBLEMS, ETC.	63,338.89	
INVESTMENT INCOME	20,088.33	
MISCELLANEOUS INCOME	<u>874.84</u>	
TOTAL INCOME		\$ 1,813,073.42

EXPENSE

PROCEEDINGS EDITORIAL PAGES	\$ 287,831.17	
ADVERTISING PAGES	399,042.18	
DIRECTORY	153,633.38	
SECTION AND STUDENT BRANCH REBATES	64,314.29	
PROFESSIONAL GROUP EXPENSE	68,563.34	
SALES ITEMS	41,549.04	
GENERAL OPERATIONS	316,002.34	
CONVENTION COST	<u>265,556.67</u>	
TOTAL EXPENSE		<u>1,596,492.41</u>

RESERVE FOR FUTURE OPERATIONS - GROSS \$ 216,581.01

RESERVE FOR DEPRECIATION 13,469.05

RESERVE FOR FUTURE OPERATIONS - NET \$ 203,111.96

TABLE XXI - BALANCE SHEET - DECEMBER 31, 1954

ASSETS

CASH AND ACCOUNTS RECEIVABLE	\$ 396,052.27
INVENTORY	<u>17,451.96</u>

\$ 413

TOTAL CURRENT ASSETS

INVESTMENTS AT COST	774,241.75
BUILDINGS AND LAND AT COST	910,337.92
FURNITURE AND FIXTURES AT COST	166,649.93
OTHER ASSETS	<u>19,855.23</u>

TOTAL

TOTAL ASSETS

LIABILITIES AND SURPLUS

ACCOUNTS PAYABLE	
*DEFERRED LIABILITIES	\$ 540,984.97
PROFESSIONAL GROUP FUNDS ON DEPOSIT	<u>109,885.04</u>

TOTAL LIABILITIES

RESERVE FOR DEPRECIATION

SURPLUS DONATED	595,286.61
SURPLUS	<u>956,920.87</u>

TOTAL SURPLUS

TOTAL LIABILITIES AND SURPLUS

\*1955 ITEMS, PROCEEDINGS FOR MEMBERS AND SUBSCRIBERS,  
ADVERTISING AND CONVENTION SERVICE.

TABLE XXII - EDITORIAL DEPARTMENT

IRE PUBLICATION ACTIVITIES DURING 1954 WERE MARKED BOTH BY A LARGE INCREASE IN VOLUME AND BY IMPORTANT IMPROVEMENTS IN SERVICE.

DUE PRINCIPALLY TO THE LARGE GROWTH OF THE TRANSACTIONS OF THE PROFESSIONAL GROUPS, WHICH NEARLY DOUBLED IN VOLUME, THE TOTAL IRE PUBLICATION OUTPUT SOARED TO 79 ISSUES TOTALING 10,486 PAGES, A 25% INCREASE OVER THE PREVIOUS YEAR. IT IS INTERESTING TO NOTE THAT AS RECENTLY AS 1951, THE CORRESPONDING TOTALS WERE ONLY 19 ISSUES AND 3,914 PAGES, INDICATING THAT THE IRE PUBLICATION PROGRAM HAS EXPANDED 2½ TIMES IN THE BRIEF SPAN OF 3 YEARS.

TWO NOTEWORTHY IMPROVEMENTS IN SERVICE WERE INSTITUTED DURING THE YEAR: (1) A NEW PUBLICATION FOR STUDENT MEMBERS, THE IRE STUDENT QUARTERLY, WAS SUCCESSFULLY LAUNCHED; (2) THE AVERAGE PUBLICATION TIME OF PROCEEDINGS PAPERS WAS CUT IN HALF.

PROCEEDINGS OF THE IRE

THE EDITORIAL BOARD BEGAN A CONTINUING STUDY OF THE LONG-TERM ROLES OF THE PROCEEDINGS AND THE TRANSACTIONS. AS A RESULT OF THEIR INITIAL DELIBERATIONS, SEVERAL STEPS WERE TAKEN TO AVOID AN OVERLAP OF THE PROCEEDINGS AND THE TRANSACTIONS AND, AT THE SAME TIME, TO STRENGTHEN THE COORDINATION BETWEEN THEM. THESE ACTIONS INVOLVED PLACING STRINGENT RESTRICTIONS ON REPRINTING TRANSACTIONS PAPERS IN THE PROCEEDINGS, PARTICIPATION OF PROFESSIONAL GROUP REPRESENTATIVES IN THE REVIEW OF PROCEEDINGS PAPERS, AND THE PUBLICATION IN PROCEEDINGS OF ABSTRACTS OF ALL TRANSACTIONS PAPERS.

AS CAN BE SEEN IN TABLE I AND FIG.1, THE NUMBER OF PROCEEDINGS PAGES PUBLISHED DURING 1954 REMAINED ABOUT THE SAME AS THE PREVIOUS YEAR, WITH THE TOTAL OF EDITORIAL PAGES SHOWING A SLIGHT INCREASE. HOWEVER, THE NUMBER OF PAPERS, 177, WAS LESS THAN THE PREVIOUS YEAR'S TOTAL OF 212. NINE IRE STANDARDS ALSO APPEARED. THE YEAR'S HIGHLIGHT WAS THE APPEARANCE OF A SPECIAL JUMBO ISSUE ON COLOR TELEVISION IN JANUARY.

TABLE I - VOLUME OF PROCEEDINGS PAGES

	<u>1954</u>	<u>1953</u>	<u>1952</u>	<u>1951</u>
EDITORIAL	1884	1860	1804	1628
ADVERTISING	<u>2072</u>	<u>2146</u>	<u>1800</u>	<u>1424</u>
TOTAL	3956	4006	3604	3052

EARLY IN THE YEAR, THE PROCEDURE FOR REVIEWING PAPERS WAS CONSIDERABLY STREAMLINED AND, AS A RESULT, THE AVERAGE TIME REQUIRED FOR PUBLISHING PROCEEDINGS PAPERS WAS REDUCED FROM 10 MONTHS TO 5. IN ADDITION, THE BACKLOG OF ACCEPTED MATERIAL AWAITING PUBLICATION WAS REDUCED FROM THE EQUIVALENT OF 2 ISSUES TO A SMALL FRACTION OF AN ISSUE, THUS HELPING TO SPEED UP PUBLICATION OF PAPERS.

THE VOLUME OF MATERIAL REVIEWED FOR PROCEEDINGS WAS LESS THAN IN THE PREVIOUS YEAR, REFLECTING THE INCREASINGLY PROMINENT ROLE BEING PLAYED BY THE TRANSACTIONS. A TOTAL OF 305 PAPERS COMPRISING 1988 PAGES WAS CONSIDERED, AS AGAINST 376 PAPERS AND 2,621 PAGES IN 1953. OF THE TOTAL, 38% OF THE PAPERS WERE ACCEPTED, 30% WERE REFERRED TO THE APPROPRIATE TRANSACTIONS FOR CONSIDERATION, AND 32% WERE REJECTED.

THE ANNUAL REVIEW OF RADIO PROGRESS, WHICH FORMERLY APPEARED IN APRIL OF EACH YEAR, WAS DISCONTINUED. IN ITS STEAD, A SERIES OF REVIEW PAPERS, PREPARED BY EXPERTS IN VARIOUS FIELDS, WAS STARTED. IT IS PLANNED TO PUBLISH ADDITIONAL REVIEW PAPERS ON EACH SUBJECT AT APPROPRIATE INTERVALS WHEN SUFFICIENT PROGRESS HAS BEEN MADE SINCE THE LAST PAPER WAS PUBLISHED.

### TRANSACTIONS

THE YEAR 1954 SAW THE TRANSACTIONS OUTPUT OF THE PROFESSIONAL GROUPS INCREASE ALMOST 100%, THE GREATEST INCREASE SINCE THEIR INCEPTION THREE YEARS AGO. THE YEAR ALSO SAW AN IMPROVEMENT IN THE TRANSACTIONS THEMSELVES, WITH 6 GROUPS UTILIZING LETTERPRESS COMPOSITION FOR IMPROVED APPEARANCE AND 10 GROUPS ISSUING TRANSACTIONS ON A REGULAR SCHEDULE.

AS A RESULT OF THIS MAJOR INCREASE IN ACTIVITY, THE EDITORIAL DEPARTMENT PUBLISHED 51 ISSUES OF TRANSACTIONS TOTALING 3,714 PAGES FOR 18 GROUPS DURING 1954, AS COMPARED WITH THE 1953 TOTALS OF 32 ISSUES TOTALING 1,798 PAGES FOR 15 GROUPS. A BREAKDOWN OF TRANSACTIONS MATERIAL PUBLISHED IN 1953 AND 1954 IS GIVEN IN TABLE 2.

TABLE 2 - VOLUME OF TRANSACTIONS PAGES

	1954		1953	
	ISSUES	PAGES	ISSUES	PAGES
AERONAUTICAL AND NAVIGATIONAL ELECTRONICS	4	144	3	84
ANTENNAS AND PROPAGATION	4	188	2	72
AUDIO	6	208	6	180
BROADCAST AND TELEVISION RECEIVERS	4	312	3	160
CIRCUIT THEORY	4	256	1	112
COMMUNICATIONS SYSTEMS	3	414	1	76
COMPONENT PARTS	2	172	0	0
ELECTRON DEVICES	4	524	3	184
ELECTRONIC COMPUTERS	4	228	4	136
ENGINEERING MANAGEMENT	2	132	0	0
INDUSTRIAL ELECTRONICS	0	0	1	44
INFORMATION THEORY	2	404	2	290
INSTRUMENTATION	1	60	1	116
MEDICAL ELECTRONICS	0	0	1	44
MICROWAVE THEORY AND TECHNIQUES	3	244	2	100
NUCLEAR SCIENCE	1	48	0	0
RELIABILITY AND QUALITY CONTROL	2	104	1	56
TELEMETRY AND REMOTE CONTROL	2	56	0	0
ULTRASONICS ENGINEERING	2	116	0	0
VEHICULAR COMMUNICATIONS	1	104	1	144
TOTALS	51	3,714	32	1,798

CONVENTION RECORD OF THE IRE

THE PRACTICE OF PUBLISHING THE CONVENTION RECORD CONTAINING PAPERS PRESENTED AT THE IRE NATIONAL CONVENTION, BEGUN IN 1953, WAS REPEATED. THE 1954 CONVENTION RECORD, CONTAINING 213 PAPERS AND 29 ABSTRACTS TOTALING 1,436 PAGES, WAS ISSUED IN ELEVEN PARTS. EVERY PAID MEMBER OF A PROFESSIONAL GROUP RECEIVED FREE OF CHARGE A COPY OF THAT PART PERTAINING TO THE FIELD OF INTEREST OF HIS GROUP.

## IRE STUDENT QUARTERLY

A NEW PUBLICATION FOR STUDENT MEMBERS, THE IRE STUDENT QUARTERLY, MADE ITS FIRST APPEARANCE IN SEPTEMBER, FOLLOWED BY A SECOND ISSUE IN DECEMBER. THE PUBLICATION IS SENT FREE TO ALL STUDENT MEMBERS OF THE IRE AS PART OF A PROGRAM OF INCREASED SERVICES TO STUDENTS.

## JOINT CONFERENCE PUBLICATIONS

AS A RESULT OF OFFERING ITS SERVICES AND FACILITIES TO CONFERENCES JOINTLY SPONSORED BY THE IRE AND OTHER SOCIETIES, THE EDITORIAL DEPARTMENT PUBLISHED THE 132-PAGE PROCEEDINGS OF THE EASTERN JOINT COMPUTER CONFERENCE, HELD IN WASHINGTON, D.C., ON DECEMBER 8-10, 1953, BY THE IRE, AIEE, AND THE ASSOCIATION FOR COMPUTING MACHINERY.

## IRE DIRECTORY

THE 1954 IRE DIRECTORY WAS PUBLISHED IN OCTOBER, CONTAINING 1,044 PAGES INCLUDING COVERS, OF WHICH 429 WERE MEMBERSHIP LISTINGS AND INFORMATION, AND 615 WERE ADVERTISEMENTS AND LISTINGS OF MANUFACTURERS AND PRODUCTS.

## IRE CUMULATIVE INDEX

IRE CUMULATIVE INDICES WERE BROUGHT UP TO DATE WITH THE PUBLICATION OF A CUMULATIVE INDEX FOR 1948-1953, COVERING THE TRANSACTIONS AND CONVENTION RECORD, AS WELL AS THE PROCEEDINGS.

VOLUME OF TECHNICAL AND EDITORIAL MATTER  
 PUBLISHED IN THE PROCEEDINGS  
 1913 TO 1954

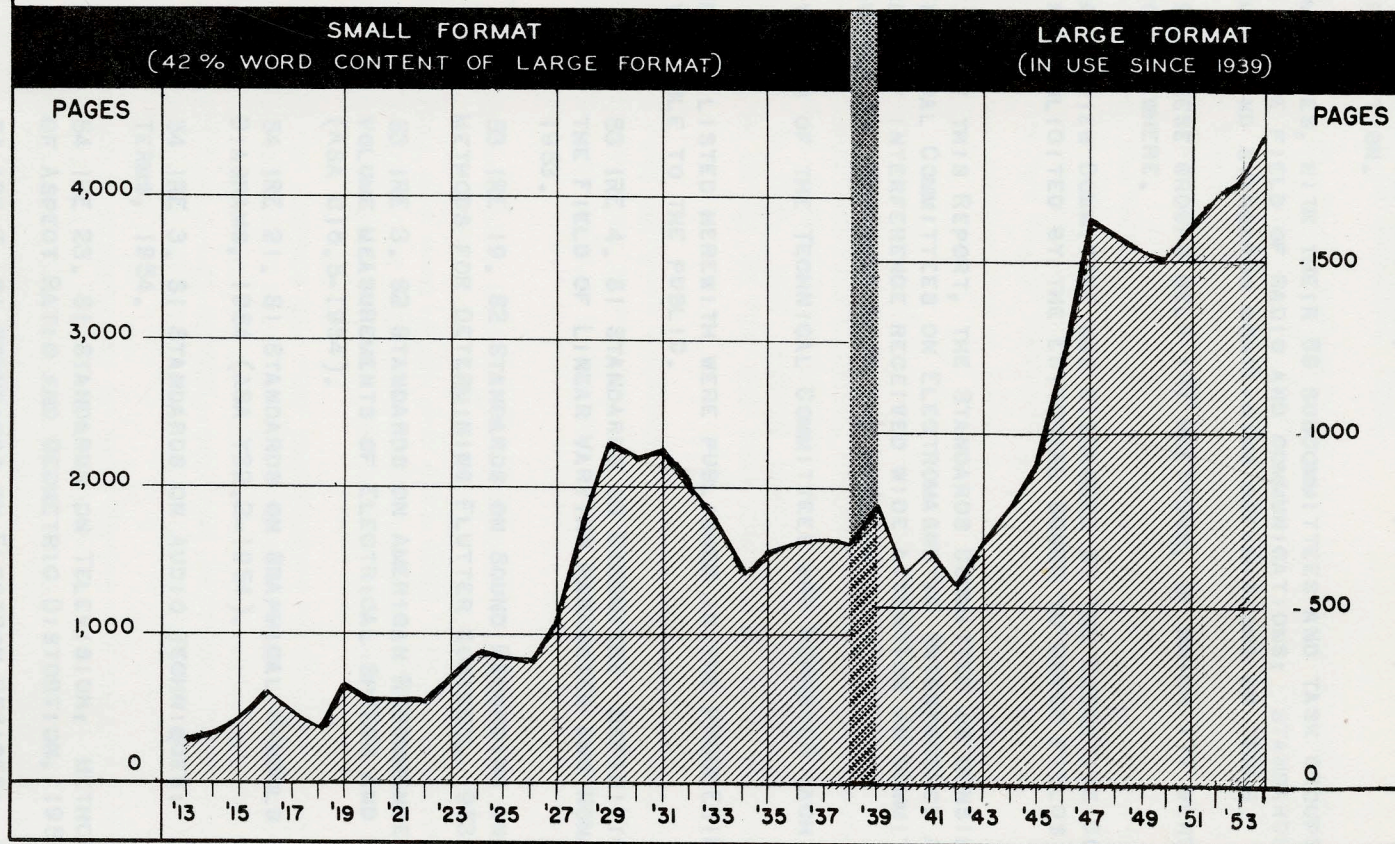


FIGURE 1

TABLE XXIII - TECHNICAL ACTIVITIES

TECHNICAL COMMITTEES. IRE SPONSORS 22 TECHNICAL COMMITTEES WITH THE FOLLOWING TITLES: ANTENNAS AND WAVEGUIDES, AUDIO TECHNIQUES, CIRCUITS, ELECTROACOUSTICS, ELECTRON DEVICES, ELECTRONIC COMPUTERS, FACSIMILE, FEEDBACK CONTROL SYSTEMS, INDUSTRIAL ELECTRONICS, INFORMATION THEORY AND MODULATION SYSTEMS, MEASUREMENTS AND INSTRUMENTATION, MOBILE COMMUNICATION SYSTEMS, NAVIGATION AIDS, PIEZOELECTRIC CRYSTALS, RADIO RECEIVERS, RADIO TRANSMITTERS, RECORDING AND REPRODUCING, STANDARDS, SYMBOLS, TELEVISION SYSTEMS, VIDEO TECHNIQUES, WAVE PROPAGATION.

THESE COMMITTEES, WITH THEIR 89 SUBCOMMITTEES AND TASK GROUPS, FORMULATE TWO TYPES OF STANDARDS IN THE FIELD OF RADIO AND COMMUNICATIONS: STANDARDS CONTAINING METHODS OF MEASUREMENT AND STANDARDS CONTAINING DEFINITIONS OF TERMS.

DURING 1954 THESE GROUPS HELD 197 MEETINGS, OF WHICH 177 WERE HELD AT IRE HEADQUARTERS AND 20 ELSEWHERE.

THE ANNUAL REVIEW COMMITTEE WAS DISBANDED BY THE EXECUTIVE COMMITTEE IN APRIL, 1954. PAPERS ARE NOW SOLICITED BY THE EDITORIAL BOARD TO COVER FIELDS FORMERLY COVERED BY THIS COMMITTEE.

AT THE TIME OF THIS REPORT, THE STANDARDS COMMITTEE IS CONSIDERING THE FORMATION OF NEW TECHNICAL COMMITTEES ON ELECTROMAGNETIC INTERFERENCE AND ON NUCLEAR SCIENCE. THE SUBJECT OF INTERFERENCE RECEIVED WIDE ATTENTION IN COMMITTEE WORK IN 1954 AND THE ENTIRE INDUSTRY IS CONCERNED WITH THE PROBLEM.

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

THE STANDARDS LISTED HEREWITH WERE PUBLISHED IN THE PROCEEDINGS IN 1954 AND REPRINTS ARE NOW AVAILABLE TO THE PUBLIC.

- |             |   |
|-------------|---|
| MARCH -     | 53 IRE 4. S1 STANDARDS ON CIRCUITS: DEFINITIONS OF TERMS IN THE FIELD OF LINEAR VARYING PARAMETER AND NON-LINEAR CIRCUITS, 1953.<br><br>53 IRE 19. S2 STANDARDS ON SOUND RECORDING AND REPRODUCING: METHODS FOR DETERMINING FLUTTER CONTENT, 1953 (ASA Z57.1-1954). |
| MAY -       | 53 IRE 3. S2 STANDARDS ON AMERICAN RECOMMENDED PRACTICE FOR VOLUME MEASUREMENTS OF ELECTRICAL SPEECH AND PROGRAM WAVES, 1953 (ASA C16.5-1954).  |
| JUNE -      | 54 IRE 21. S1 STANDARDS ON GRAPHICAL SYMBOLS FOR ELECTRICAL DIAGRAMS, 1954 (ASA Y32.2-1954).  |
| JULY -      | 54 IRE 3. S1 STANDARDS ON AUDIO TECHNIQUES: DEFINITIONS OF TERMS, 1954.<br><br>54 IRE 23. S1 STANDARDS ON TELEVISION: METHODS OF MEASUREMENT OF ASPECT RATIO AND GEOMETRIC DISTORTION, 1954 (ASA C16.23-1954).  |
| AUGUST -    | 54 IRE 7. S1 STANDARDS ON ELECTRON DEVICES: DEFINITIONS OF TERMS RELATED TO PHOTOTUBES, 1954.   |
| SEPTEMBER - | 54 IRE 17. S1 STANDARDS ON RECEIVERS: METHODS OF MEASUREMENT OF INTERFERENCE OUTPUT OF TELEVISION RECEIVERS IN THE RANGE OF 300 TO 10,000 KC, 1954.   |
| OCTOBER -   | 54 IRE 7. S2 STANDARDS ON ELECTRON DEVICES: DEFINITIONS OF SEMI-CONDUCTOR TERMS, 1954.  |

THE IRE STANDARDS ON RADIO AIDS TO NAVIGATION: DEFINITIONS OF TERMS, 1954 (54 IRE 12. S1) WERE GIVEN FINAL APPROVAL IN DECEMBER, 1954 AND WILL APPEAR IN THE FEBRUARY, 1955 PROCEEDINGS.

DURING 1954 A NEW MEASUREMENTS INDEX WAS SET UP TO SUPPLEMENT THE MASTER INDEX OF IRE DEFINITIONS, FIRST ISSUED IN 1949. THE NEW DOCUMENT WILL APPEAR IN THE PROCEEDINGS DURING THE FIRST PART OF 1955 WITH THE TITLE INDEX TO MEASUREMENT METHODS DESCRIBED IN IRE PRINTED STANDARDS. THE FOURTH EDITION OF THE MASTER INDEX OF IRE DEFINITIONS WAS DISTRIBUTED IN JANUARY, 1955.

IRE IS REPRESENTED ON 27 AMERICAN STANDARDS ASSOCIATION COMMITTEES AND SPONSORS TWO OF THEM: THE ASA SECTIONAL COMMITTEE ON RADIO AND ELECTRONIC EQUIPMENT, C16, AND THE ASA SECTIONAL COMMITTEE ON SOUND RECORDING, Z57. SIX IRE STANDARDS RECEIVED APPROVAL OF THE AMERICAN STANDARDS ASSOCIATION AS AMERICAN STANDARDS IN 1954, AND ARE NOW AVAILABLE TO INTERNATIONAL STANDARDS ORGANIZATIONS.

INTEREST IN INTERNATIONAL STANDARDIZATION WAS RENEWED WHEN MANY IRE COMMITTEE MEMBERS PARTICIPATED IN THE GOLDEN JUBILEE MEETING OF THE INTERNATIONAL ELECTROTECHNICAL COMMISSION IN PHILADELPHIA DURING SEPTEMBER 1954. SEVERAL MEMBERS OF IRE PARTICIPATED IN THE MEETINGS OF URSI IN THE HAGUE IN AUGUST, 1954.

#### PROFESSIONAL GROUP SYSTEM

GENERAL. THERE ARE PRESENTLY 23 PROFESSIONAL GROUPS ACTIVELY OPERATING WITHIN THE FRAMEWORK OF THE IRE. TWO NEW GROUPS WERE ESTABLISHED IN 1954, THE PROFESSIONAL GROUP ON PRODUCTION TECHNIQUES AND THE PROFESSIONAL GROUP ON AUTOMATIC CONTROL. MORE THAN 50% OF ALL IRE MEMBERS HAVE TAKEN ADVANTAGE OF THE PROFESSIONAL GROUP SYSTEM WHICH NOW HAS A TOTAL MEMBERSHIP OF 31,797. 593 STUDENT MEMBERS OF THE IRE HAVE JOINED THE GROUPS AT THE STUDENT MEMBER RATE OF \$1.00 FOR ONE YEAR COVERING THEIR PARTICULAR FIELD OF INTEREST.

21 GROUPS LEVY PUBLICATIONS ASSESSMENTS AND 28,158 MEMBERS HAVE PAID THESE ASSESSMENTS AND ARE RECEIVING THE PERTINENT GROUP TRANSACTIONS REGULARLY. IN ADDITION, 361 COMPANIES, UNIVERSITY AND PUBLIC LIBRARIES HAVE SUBSCRIBED TO THE TRANSACTIONS OF ALL THE GROUPS.

THE IRE HAS CONTINUED TO LEAVE THE FORMATION AND ACTIVITIES OF INDIVIDUAL GROUPS TO THE INITIATIVE OF INTERESTED IRE MEMBERS. SUPPLEMENTARY FINANCIAL ASSISTANCE IS PROVIDED BY HEADQUARTERS AND PROVISION HAS BEEN MADE FOR REIMBURSING SECTIONS FOR CHAPTER MEETINGS. INCLUDED IN THE MANY SERVICES RENDERED THE PROFESSIONAL GROUPS DURING 1954 WERE 602 MAILINGS BY HEADQUARTERS TO THE GROUPS' MEMBERSHIP.

SYMPOSIA. THE PROCUREMENT OF PAPERS AND THE MANAGEMENT OF SYMPOSIA IS NOW ENTIRELY IN THE HANDS OF PROFESSIONAL GROUPS. EACH OF THE PROFESSIONAL GROUPS HAS SPONSORED ONE OR MORE TECHNICAL MEETINGS OF NATIONAL IMPORT EACH YEAR, IN ADDITION TO TECHNICAL SESSIONS AT THE IRE NATIONAL CONVENTION, THE WESCON, AND THE NATIONAL ELECTRONICS CONVENTION, FOR A TOTAL OF 70 NATIONAL MEETINGS IN 1954 (SEE LIST ATTACHED).

PUBLICATIONS. THE OFFICIAL PUBLICATIONS OF THE GROUPS ARE CALLED "IRE TRANSACTIONS." 20 GROUPS ARE CURRENTLY PUBLISHING TRANSACTIONS AND TO DATE 113 ISSUES HAVE APPEARED. IN 1954 20 GROUPS PUBLISHED 53 TRANSACTIONS CONTAINING 3490 PAGES.

TEN OF THE GROUPS ARE NOW ON A REGULARLY STATED PUBLICATION SCHEDULE - AUDIO BI-MONTHLY - THE AERONAUTICAL AND NAVIGATIONAL ELECTRONICS, ANTENNAS AND PROPAGATION, BROADCAST AND TV RECEIVERS, CIRCUIT THEORY, ELECTRON DEVICES, ELECTRONIC COMPUTERS AND MICROWAVE THEORY AND TECHNIQUES ARE ON A QUARTERLY SCHEDULE - COMMUNICATIONS SYSTEMS 3 ISSUES PER YEAR - AND ENGINEERING MANAGEMENT SEMI-ANNUAL.

PROFESSIONAL GROUP CHAPTERS. THE INTEREST OF GROUP MEMBERS WITHIN SECTIONS HAS RESULTED IN THE ORGANIZATION OF 117 PROFESSIONAL GROUP CHAPTERS IN 27 IRE SECTIONS TO DATE (SEE LIST ATTACHED). ALL OF THE CHAPTERS ARE MEETING REGULARLY AND SPONSORING SECTION MEETINGS IN THE FIELDS OF INTEREST OF THEIR ASSOCIATED GROUPS.

APPOINTED INSTITUTE REPRESENTATIVES ON OTHER BODIES

THE IRE APPOINTED REPRESENTATIVES ON THE FOLLOWING BODIES FOR A ONE-YEAR PERIOD - MAY 1, 1954 TO APRIL 30, 1955:

JOINT IRE-AIEE-NEMA CO-ORDINATION COMMITTEE ON COMMERCIAL INDUCTION AND DIELECTRIC HEATING APPARATUS.

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 DELEGATES TO SERVE ON THE FOLLOWING BODIES:

NATIONAL ELECTRONICS CONFERENCE - ONE-YEAR PERIOD BEGINNING JANUARY 1, 1954.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE - A TWO-YEAR PERIOD BEGINNING JULY 1, 1954.

NATIONAL RESEARCH COUNCIL - DIVISION OF ENGINEERING AND INDUSTRIAL RESEARCH - A THREE-YEAR PERIOD STARTING JULY 1, 1954.

THE ANNUAL SPRING MEETING OF URSI WAS HELD ON MAY 3-6, 1954, AT THE NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C. IT WAS SPONSORED JOINTLY BY THE U.S.A. NATIONAL COMMITTEE OF URSI AND THE IRE PROFESSIONAL GROUPS ON ANTENNAS AND PROPAGATION AND MICROWAVE THEORY AND TECHNIQUES. THE INTERNATIONAL MEETING AT THE HAGUE RESULTED IN THE CANCELLATION OF A REGULAR FALL MEETING IN 1954. THE FALL MEETING OF 1955 IS SCHEDULED TO BE HELD IN GAINESVILLE, FLORIDA. THE SPRING MEETING OF URSI IS SCHEDULED FOR MAY 2-5, 1955 IN WASHINGTON, D.C.

THE PROFESSIONAL GROUPS OF IRE ARE CONTINUING THEIR COOPERATION WITH URSI. THESE GROUPS INCLUDE: ANTENNAS AND PROPAGATION, MICROWAVE THEORY AND TECHNIQUES, CIRCUIT THEORY AND INFORMATION THEORY.

THE XI GENERAL ASSEMBLY OF URSI WAS HELD IN THE HAGUE FROM AUGUST 23 TO SEPTEMBER 2, 1954. SEVERAL IRE MEMBERS WERE APPOINTED AS MEMBERS OF THE U.S. DELEGATION TO THIS ASSEMBLY. IT IS EXPECTED THAT THE NEXT GENERAL ASSEMBLY WILL BE HELD IN THE U.S.A. IN 1957 IN BOULDER, COLORADO.

ALLOCATION TO THE APPROPRIATE CCIR STUDY GROUPS FOR FUTURE STUDY OF THE VARIOUS QUESTIONS, STUDY PROGRAMS, REPORTS AND RECOMMENDATIONS RESULTED FROM THE VIIITH PLENARY ASSEMBLY THAT WAS HELD IN LONDON IN 1953. DOCUMENTS INCLUDING BACKGROUND MATERIAL FROM STUDY GROUPS 1, 3, 9 AND 10 HAVE BEEN RECEIVED IN IRE AND ARE ON FILE FOR DISTRIBUTION. NINE MEETINGS OF THE INTERNATIONAL RADIO CONSULTATIVE COMMITTEE WERE HELD DURING 1954.

#### THE JOINT TECHNICAL ADVISORY COMMITTEE

THE JOINT TECHNICAL ADVISORY COMMITTEE AND ITS SUBCOMMITTEES HELD A TOTAL OF 12 MEETINGS, IN ADDITION TO A FIFTIETH MEETING DINNER.

VOLUME XI OF THE JTAC PROCEEDINGS WAS PUBLISHED IN 1954. THIS INCLUDES SECTION I - OFFICIAL CORRESPONDENCE BETWEEN THE FEDERAL COMMUNICATIONS COMMISSION AND THE JOINT TECHNICAL ADVISORY COMMITTEE (IRE-RETMA) WITH OTHER ITEMS OF CORRESPONDENCE PERTINENT TO THE ACTION OF THE JTAC AND SECTION II - APPROVED MINUTES OF MEETINGS OF THE JOINT TECHNICAL ADVISORY COMMITTEE FOR THE PERIOD 1 JULY 1953 TO 30 JUNE 1954.

THE JTAC SUBCOMMITTEE ON LAND-MOBILE CHANNELING ARRANGEMENTS SUBMITTED A REPORT TO JTAC ON DECEMBER 10, 1954, WHICH WAS TRANSMITTED TO THE FCC CHAIRMAN. THIS SUBCOMMITTEE WAS REACTIVATED ON FEBRUARY 12, 1954, IN REPLY TO THE FCC INQUIRY OF JANUARY 8, 1954, TO MR. A.V. LOUGHREN, THEN CHAIRMAN OF JTAC. LABORATORY TESTS HAD BEEN CONDUCTED AND DATA COLLECTED TO ASSIST IN ANSWERING THE QUESTIONS POSED IN MR. HYDE'S LETTER TO MR. LOUGHREN.

THE INTERFERENCE STUDY ESTABLISHED BY JTAC IN DECEMBER 1952 AT THE REQUEST OF CHAIRMAN PAUL A. WALKER OF THE FCC CONTINUED DURING 1954. JTAC CONSIDERED THE FCC'S NOTICE OF PROPOSED RULE MAKING IN THE MATTER OF THE COMMISSION'S DOCKET NO. 9288. THE COMMITTEE REACHED CONCLUSIONS WHICH WERE CONSIDERED PERTINENT TO THE PROPOSED RULE MAKING AND SO PRESENTED THESE VIEWS TO THE FCC CHAIRMAN. THESE INCLUDED OPINIONS ON (I) BASIC PHILOSOPHY, (II) BASIC TECHNICAL CONSIDERATIONS, (THE NECESSITY FOR AND PRACTICAL LIMITS OF CONTROL) AND (III) SPECIFIC CONSIDERATIONS ARISING UNDER THE PROPOSED RULES.

TWO NEW SUBCOMMITTEES WERE FORMED BY JTAC. THE INTERFERENCE ANALYSIS SUBCOMMITTEE 54.1 WAS ORGANIZED ON JANUARY 28, 1954, TO EXAMINE THE MATERIAL REGARDING INTERFERENCE CASES AND TO ADVISE JTAC OF OTHER POSSIBLE SOURCES OF INFORMATION.

ON SEPTEMBER 23, 1954, A SUBCOMMITTEE 54.2 ON R.F. INTERFERENCE FROM ARC WELDERS WAS FORMED AS THE RESULT OF AN FCC REQUEST TO JTAC ASKING THEIR ASSISTANCE AND ADVICE IN CONNECTION WITH CERTAIN PROBLEMS CONCERNING RADIO FREQUENCY STABILIZED ARC WELDING APPARATUS. ONE MEETING HAS BEEN HELD SO FAR.

#### THE INTERNATIONAL ELECTROTECHNICAL COMMISSION

THE INTERNATIONAL ELECTROTECHNICAL COMMISSION HELD ITS GOLDEN JUBILEE MEETING IN PHILADELPHIA SEPTEMBER 1-16, 1954. ABOUT 1,000 DELEGATES AND THEIR WIVES ATTENDED. TWENTY-ONE COUNTRIES WERE REPRESENTED: ARGENTINA, AUSTRALIA, BELGIUM, CANADA, DENMARK, FINLAND, FRANCE, GERMANY, INDIA, ISRAEL, ITALY, JAPAN, NETHERLANDS, NORWAY, SPAIN, SWEDEN, SWITZERLAND, UNITED KINGDOM, UNITED STATES, AND YUGOSLAVIA.

FORTY-THREE INTERNATIONAL RECOMMENDATIONS WERE APPROVED BY THE COMMITTEE OF ACTION OF THE IEC AT THE JUBILEE MEETINGS. THESE RECOMMENDATIONS WERE WORKED ON, DISCUSSED AND VOTED UPON BY THE DELEGATES AT VARIOUS TECHNICAL COMMITTEE MEETINGS. THEY INCLUDED: CLASSIFICATION AND TEST METHODS FOR INSULATING MATERIALS, RULES FOR ELECTRIC TRACTION MOTORS, 10 RECOMMENDATIONS FOR MEASUREMENT AND SAFETY REQUIREMENTS FOR TELEVISION AND RADIO, SPECIFICATIONS FOR HIGH-VOLTAGE CIRCUIT BREAKERS, TESTS FOR LEAD-COVERED ELECTRIC CABLES, CHARACTERISTICS OF AUDIO APPARATUS, CONSTRUCTION OF FLAME-PROOF ENCLOSURES, LAMPS AND RELATED EQUIPMENT, INSULATORS OF OVERHEAD LINES, ELECTRONIC TUBES AND VALVES, AND OTHERS. IRE MEMBERS WERE ACTIVE IN MANY OF THE TECHNICAL COMMITTEE MEETINGS.

NATIONAL TECHNICAL MEETINGS, 1954

<u>NAME OF MEETING</u>	<u>SPONSORING PG</u>	<u>PLACE</u>	<u>DATE</u>
IAS/ION/RTCA ELECTRONICS IN AVIATION CONFERENCE	RT&RC; ANE	NEW YORK, NEW YORK	JANUARY 27
IRE/AIEE SCINTILLATION COUNTER SYMPOSIUM	NS	WASHINGTON, D.C.	JANUARY 26-27
SIXTH SOUTHWESTERN IRE CONFERENCE AND ELECTRONICS SHOW		TULSA, OKLAHOMA	FEBRUARY 4-6
JOINT IRE/AIEE/ACM WEST COAST COMPUTER CONF.	EC	LOS ANGELES, CAL.	FEBRUARY 11-12
JOINT IRE/AIEE CONF. ON TRANSISTOR CIRCUITS	CT	PHILADELPHIA, PA.	FEBRUARY 18-19
IRE NATIONAL CONVENTION	ALL GROUPS	NEW YORK, N.Y.	MARCH 22-25
IRE POLYTECHNIC INSTITUTE OF BROOKLYN SYMPOSIUM ON INFORMATION NETWORKS	CT	NEW YORK, NEW YORK	APRIL 12-14
JOINT IRE/IAS/RTCA SYMPOSIUM - "POTENTIALITIES OF THE NEXT 50 YEARS IN AVIATION"	A&NE	PHILADELPHIA, PENNSYLVANIA	APRIL 22-23
IRE EIGHTH ANNUAL SPRING TECHNICAL CONFERENCE	B&TVR	CINCINNATI, OHIO	APRIL 24
IRE/AIEE SYMPOSIUM ON MILITARY COMMUNICATIONS SYSTEM	CS	NEW YORK, NEW YORK	APRIL 28
UPPI SPRING TECHNICAL MEETING	A&P; MT&T	WASHINGTON, D.C.	MAY 3-6
IRE/AIEE/RETMA ELECTRONIC COMPONENTS SYMPOSIUM	CP	WASHINGTON, D.C.	MAY 4-6
IRE SEVENTH REGIONAL TECHNICAL CONFERENCE		PORTLAND, OREGON	MAY 5-7
IRE NEW ENGLAND RADIO ENGINEERING MEETING		BOSTON, MASS.	MAY 7-8
IRE NATIONAL AIRBORNE ELECTRONICS CONFERENCE	ANE	DAYTON, OHIO	MAY 10-12
IRE/AIEE/IAS/ISA NATIONAL TELEMETERING CONFERENCE	RT&RC	CHICAGO, ILLINOIS	MAY 24-26
IRE SYMPOSIUM ON GLOBAL COMMUNICATIONS	CS	WASHINGTON, D.C.	JUNE 23-25
12TH ANNUAL CONFERENCE ON ELECTRON TUBE RESEARCH		ORONO, MAINE	JUNE 23-25
IRE CONFERENCE ON SEMICONDUCTOR RESEARCH		MINNESOTA	JUNE 28-30
IRE/WCEMA WESTERN ELECTRONIC SHOW AND CONVENTION	14 GROUPS	LOS ANGELES, CALIFORNIA	AUGUST 25-27
ANNUAL CONFERENCE ON INDUSTRIAL ELECTRONICS	IE	PITTSBURGH, PA.	SEPTEMBER 29-30
1ST INTERNATIONAL INSTRUMENT CONFERENCE	I	PHILADELPHIA, PA.	SEPTEMBER 13-24
JOINT IRE/AIEE/URSI SYMPOSIUM ON INFORMATION THEORY	IT	CAMBRIDGE, MASSACHUSETTS	SEPTEMBER 15-17
CONFERENCE ON COMMUNICATIONS		CEDAR RAPIDS	SEPTEMBER 17-18

<u>NAME OF MEETING</u>	<u>SPONSORING PG</u>	<u>PLACE</u>	<u>DATE</u>
5TH ANNUAL VEHICULAR COMMUNICATIONS MEETING	VC	HOUSTON, TEXAS	SEPTEMBER 30- OCTOBER 1
4TH ANNUAL BROADCAST SYMPOSIUM	BTS	CLEVELAND	SEPTEMBER 24-25
NATIONAL ELECTRONICS CONFERENCE	CT; A; I	CHICAGO, ILL.	OCTOBER 4-6
FIRST ANNUAL MEETING OF THE PROFESSIONAL GROUP ON NUCLEAR SCIENCE	NS	CHICAGO, ILL.	OCTOBER 6-7
SYMPOSIUM ON MARINE COMMUNICATION AND NAVIGATION	CS	BOSTON, MASSACHUSETTS	OCTOBER 13-15
IRE/RETMA RADIO FALL MEETING	QC; ED; B&TVR	SYRACUSE, N.Y.	OCTOBER 18-20
EAST COAST CONFERENCE ON AIRBORNE AND NAVIGATIONAL ELECTRONICS	A&NE	BALTIMORE, MARYLAND	NOVEMBER 4-5
IRE/PIB MICROWAVE SYMPOSIUM	MT&T	NEW YORK, N.Y.	NOVEMBER 8-10
IRE/AIEE/ISA ELEC. TECH. IN MEDICINE AND BIOLOGY	ME	CHICAGO, ILLINOIS	NOVEMBER 10-11
IRE QUALITY CONTROL SYMPOSIUM	QC	NEW YORK, N.Y.	NOVEMBER 12-13
SYMPOSIUM ON FLUCTUATION PHENOMENA IN MICROWAVE SOURCES	ED	NEW YORK, NEW YORK	NOVEMBER 18-19
CONFERENCE ON INSTRUMENTATION AND AIRBORNE ELECTRONICS		KANSAS CITY	NOVEMBER 18-19
EASTERN JOINT COMPUTER CONFERENCE	EC	PHILADELPHIA, PENNSYLVANIA	DECEMBER 8-10

PROFESSIONAL GROUP CHAPTERS  
ESTABLISHED AS OF DECEMBER 31, 1954

CODE NUM	NAME OF GROUP	No. OF CHAPTERS	SECTION LOCATION		
G-11	AERO. & NAVIG. ELEC.	8	BALTIMORE DALLAS-FT. WORTH DAYTON	KANSAS CITY LOS ANGELES NEW YORK	PHILADELPHIA ST. LOUIS
G-3	ANTENNAS AND PROPAGATION	6	ALBUQUERQUE CHICAGO	LOS ANGELES ORANGE BELT (L.A.)	PHILADELPHIA WASHINGTON, D.C.
G-1	AUDIO	15	ALBUQUERQUE BOSTON CHICAGO CINCINNATI CLEVELAND	DETROIT HOUSTON KANSAS CITY LOS ANGELES MILWAUKEE	PHILADELPHIA PHOENIX SAN DIEGO SEATTLE WASHINGTON, D.C.
G-23	AUTOMATIC CONTROL	1	DALLAS-FT. WORTH		
G-8	BROADCAST & TV RECEIVERS	2	CHICAGO	LOS ANGELES	
G-2	BROADCAST TRANSMISSION SYSTEMS	5	BOSTON CHICAGO	HOUSTON KANSAS CITY	LOS ANGELES
G-4	CIRCUIT THEORY	6	ALBUQUERQUE CHICAGO	LOS ANGELES PHILADELPHIA	SEATTLE URBANA (CHICAGO)
G-19	COMMUNICATIONS SYSTEMS	1	WASHINGTON, D.C.		
G-21	COMPONENT PARTS	5	DAYTON LOS ANGELES	PHILADELPHIA WASHINGTON, D.C.	NEW YORK
G-15	ELECTRON DEVICES	8	BOSTON-NORTH SHORE EMPORIUM, PA. LOS ANGELES	MONMOUTH CO., N.J. NEW YORK PHILADELPHIA	SAN FRANCISCO WASHINGTON, D.C.
G-16	ELECTRONIC COMPUTERS	11	AKRON ALBUQUERQUE BOSTON CHICAGO	DALLAS-FT. WORTH DETROIT LOS ANGELES NEW YORK	PHILADELPHIA SAN FRANCISCO WASHINGTON, D.C.
G-14	ENGINEERING MANAGEMENT	8	BOSTON CHICAGO DAYTON	LOS ANGELES NEW YORK PHILADELPHIA	SAN FRANCISCO WASHINGTON, D.C.
G-13	INDUSTRIAL ELECTRONICS	2	CHICAGO	CLEVELAND	
G-12	INFORMATION THEORY	3	ALBUQUERQUE	LOS ANGELES	WASHINGTON, D.C.
G-9	INSTRUMENTATION	4	CHICAGO DETROIT	HOUSTON LOS ANGELES	
G-18	MEDICAL ELECTRONICS	4	BUFFALO CONN. VALLEY	LOS ANGELES SAN FRANCISCO	
G-17	MICROWAVE THEORY & TECHNIQUES	7	ALBUQUERQUE BALTIMORE BOSTON	BUFFALO CHICAGO LONG ISLAND	PHILADELPHIA
G-5	NUCLEAR SCIENCE	8	ALBUQUERQUE BOSTON CHICAGO	CONN. VALLEY DAYTON LOS ALAMOS	OAK RIDGE, TENN.- (ATLANTA SEC.) WASHINGTON D.C.

PROFESSIONAL GROUP CHAPTERS  
ESTABLISHED AS OF DECEMBER 31, 1954  
(CONTINUED)

<u>CODE NUMBER</u>	<u>NAME OF GROUP</u>	<u>NO. OF CHAPTERS</u>	<u>SECTION LOCATION</u>		
G-22	PRODUCTION TECHNIQUES	1	LOS ANGELES		
G-7	RELIABILITY & QUALITY CONTROL	2	CHICAGO WASHINGTON, D.C.		
G-10	TELEMETRY & REMOTE CONTROL	4	ALBUQUERQUE CHICAGO	DAYTON LOS ANGELES	
G-6	VEHICULAR COMMUNICATIONS	6	BOSTON CHICAGO	DETROIT LOS ANGELES	HOUSTON WASHINGTON, D.C.
22 GROUPS		117 CHAPTERS	27 SECTIONS		

TABLE XXIV - SECTION ACTIVITIES

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

ISRAEL	OCTOBER 1954
ITHACA	MARCH 1954
NORTHERN NEW JERSEY	MAY 1954

THE TOTAL NUMBER OF SECTIONS IS NOW 74. REFERENCE TO TABLE XXV WILL SHOW A MEMBERSHIP INCREASE IN 57 OF THE 74 SECTIONS.

THE ITHACA AND NORTHERN NEW JERSEY SUBSECTIONS BECAME FULL SECTIONS IN THE YEAR 1954. THE SUBSECTIONS OF SECTIONS NOW TOTAL 17, THE FOLLOWING BEING FORMED IN 1954:

BERKSHIRE COUNTY (CONNECTICUT VALLEY SECTION)	JANUARY 1954
NORTHWEST FLORIDA (ATLANTA SECTION)	MARCH 1954
RICHLAND (SEATTLE SECTION)	FEBRUARY 1954
TUCSON (PHOENIX SECTION)	JANUARY 1954

TABLE XXV - SECTION MEETINGS AND MEMBERSHIP  
(INCLUDING SUBSECTIONS)

<u>SECTIONS</u>	<u>NUMBER OF MEETINGS</u>			<u>MEMBERSHIP OF SECTIONS</u>					
	<u>1954</u>	<u>1953</u>	<u>1952</u>	<u>1954</u>	<u>% 1</u>	<u>1953</u>	<u>% 1</u>	<u>1952</u>	<u>% 1</u>
AKRON	11	10	11	247	+18	210	+13	186	+21
ALBUQUERQUE- LOS ALAMOS	12	9	9	345	+14	302	+ 9	277	- 9
ATLANTA	12	11	9	579	+32	440	-25	587	+ 8
BALTIMORE	10	10	10	880	+16	757	+27	597	+ 2
BEAUMONT- PORT ARTHUR	10	10	10	62	- 6	66	+ 7	62	+19
BINGHAMTON	8	7	7	159	+17	136	+ 2	134	-
BOSTON	4	6	15	2594	+17	2209	+19	1864	+16
BUENOS AIRES	9	15	10	95	- 7	102	+15	89	- 5
BUFFALO-NIAGARA	14	9	8	366	+ 4	352	+20	294	+11
CEDAR RAPIDS	12	10	11	262	+11	235	+10	213	+14
CENTRAL FLORIDA	6	8	-	207	+67	124	+ 3	121	-
CHICAGO	6	5	18	1982	+ 5	1884	+14	1652	+ 8
CINCINNATI	10	3	17	295	- 1	298	+10	270	+23
CLEVELAND	9	9	10	401	+13	356	+11	322	+ 8
COLUMBUS	8	9	11	148	- 9	162	+18	137	+12
CONNECTICUT VALLEY	14	8	12	824	+17	703	+22	574	+12
DALLAS-FORT WORTH	22	10	20	571	+17	489	- 2	499	+ 2
DAYTON	15	11	7	583	+ 7	545	+11	492	+12
DENVER	9	9	11	274	+31	209	+ 4	201	+ 7
DES MOINES- AMES	8	7	10	90	+47	61	- 5	64	+ 7
DETROIT	5	9	9	804	+ 6	759	+ 7	709	+ 9
ELMIRA-CORNING	6	4	-	101	+40	72	-	-	-
EL PASO	10	5	6	194	+ 4	187	+13	166	-
EMPORIUM	16	18	19	197	+17	169	- 8	184	+16
EVANSVILLE- OWENSBORO	9	10	10	94	+ 7	88	+27	69	- 1

TABLE XXV - SECTION MEETINGS AND MEMBERSHIP (CONT'D)  
(INCLUDING SUBSECTIONS)

<u>SECTIONS</u>	<u>NUMBER OF MEETINGS</u>			<u>MEMBERSHIP OF SECTIONS</u>					
	<u>1954</u>	<u>1953</u>	<u>1952</u>	<u>1954</u>	<u>%<sup>1</sup></u>	<u>1953</u>	<u>%<sup>1</sup></u>	<u>1952</u>	<u>%<sup>1</sup></u>
FORT WAYNE	9	10	8	177	- 1	179	+35	133	+30
HAMILTON	9	9	8	109	+ 7	102	+26	81	-
HAWAII	10	10	12	86	- 5	91	-	91	- 6
HOUSTON	9	10	7	329	+41	234	+14	206	+13
HUNTSVILLE	10	11	-	195	+ 3	189	-	-	-
INDIANAPOLIS	7	3	6	306	+31	233	+ 2	228	+12
INYOKERN	12	10	10	78	+13	69	+ 5	66	+ 6
*ISRAEL	1	-	-	41	-	-	-	-	-
*ITHACA	4	-	-	126	-	-	-	-	-
KANSAS CITY	4	9	10	421	+14	369	+13	328	+ 6
LITTLE ROCK	9	9	9	63	-22	81	+13	72	-
LONDON	10	10	11	77	+ 3	75	- 6	80	- 9
LONG ISLAND	9	8	-	2553	+12	2271	-	-	-
LOS ANGELES	24	15	19	3314	+17	2835	+24	2282	+23
LOUISVILLE	6	9	9	86	- 2	88	- 9	97	+56
MIAMI	9	9	-	202	-16	242	+16	209	-27
MILWAUKEE	18	8	14	323	+18	273	+ 9	250	- 7
MONTREAL	6	8	5	382	+13	339	+25	271	+ 9
NEW ORLEANS	9	-	-	137	-	137	-	-	-
**NEW YORK	30	34	41	3747	-31	5445	-22	6990	+10
NORTH CAROLINA- VIRGINIA	7	1	6	441	-11	493	+22	405	+13
*NORTHERN NEW JERSEY	5	-	-	2393	-	-	-	-	-
OKLAHOMA CITY	7	9	8	103	+ 4	99	+24	80	+31
OMAHA-LINCOLN	4	7	3	91	+10	83	+ 1	82	- 9
OTTAWA	7	7	9	196	+22	160	+14	140	+ 4
PHILADELPHIA	32	21	17	2420	+14	2119	+17	1804	+18
PHOENIX	19	8	3	246	+40	177	+32	134	+34

TABLE XXV - SECTION MEETINGS AND MEMBERSHIP (CONT'D)  
(INCLUDING SUBSECTIONS)

SECTIONS	NUMBER OF MEETINGS			MEMBERSHIP OF SECTIONS					
	1954	1953	1952	1954	% <sup>1</sup>	1953	% <sup>1</sup>	1952	% <sup>1</sup>
PITTSBURGH	10	11	9	481	+12	431	+ 2	423	+ 3
PORTLAND	13	15	13	217	+ 4	208	+14	182	+ 3
PRINCETON	10	10	10	391	+15	340	+19	287	+ 6
ROCHESTER	9	7	7	205	+25	164	+12	146	+13
ROME-UTICA	10	6	-	238	+19	200	-	-	-
SACRAMENTO	10	9	5	97	+33	73	- 9	80	+11
ST. LOUIS	10	9	9	365	+24	295	+11	267	-10
SALT LAKE	7	1	7	147	+19	128	- 3	132	+ 7
SAN ANTONIO	12	8	9	222	+24	179	+16	155	+ 2
SAN DIEGO	11	15	12	365	+ 7	341	+ 3	332	- 4
SAN FRANCISCO	10	15	17	1384	+19	1165	+ 8	1076	+ 4
SCHENECTADY	6	7	6	350	+ 6	330	+12	295	- 3
SEATTLE	5	3	6	592	+17	505	+ 6	476	-10
SYRACUSE	12	12	15	571	- 8	623	-11	697	- 1/2
TOLEDO	10	9	10	127	+13	112	- 1	113	+ 4
TORONTO	6	6	14	421	+12	375	- 2	383	- 3
TULSA	8	10	11	208	+13	185	+16	159	+21
TWIN CITIES	11	10	10	466	+ 6	439	-22	559	+47
VANCOUVER	10	9	10	184	+14	161	+ 7	150	+13
WASHINGTON	9	10	12	2039	+ 8	1886	+10	1718	+ 9
WILLIAMSPORT	9	7	7	42	-13	48	-16	57	+12
WINNIPEG	10	8	-	79	+13	70	-	-	-
	749	654	674	40,187	+13	35,626	+13	31,479	+11
TOTAL MEMBERSHIP OF IRE .....				41,778	+12½	37,134	+13	32,874	+12

<sup>1</sup> PERCENTAGE INCREASE OR DECREASE BASED ON PRECEDING YEAR.

\* SECTIONS FORMED DURING 1954.

\*\* DECREASE IN MEMBERSHIP DUE TO RELEASE OF MEMBERS TO NEWLY FORMED NORTHERN NEW JERSEY SECTION.

TABLE XXVI - SUBSECTION MEETINGS

<u>SUBSECTION</u>	<u>PARENT SECTION</u>	<u>NUMBER OF MEETINGS</u>
AMARILLO-LUBBOCK	DALLAS-FORT WORTH	6
BERKSHIRE COUNTY	CONNECTICUT VALLEY	6
BUENAVENTURA	LOS ANGELES	9
CENTRE COUNTY	EMPORIUM	5
CHARLESTON	ATLANTA	2
EAST BAY	SAN FRANCISCO	2
ERIE	BUFFALO-NIAGARA	5
LANCASTER	PHILADELPHIA	7
MID-HUDSON	NEW YORK	8
MONMOUTH	NEW YORK	8
NORTHWEST FLORIDA	ATLANTA	-
ORANGE BELT	LOS ANGELES	5
PALO ALTO	SAN FRANCISCO	5
RICHLAND	SEATTLE	1
TUCSON	PHOENIX	8
U.S.A.F.I.T.	DAYTON	7
WICHITA	KANSAS CITY	<u>3</u>
		87

TABLE XXVII - PROFESSIONAL GROUP CHAPTER MEETINGS, 1954

SECTION	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G20	G21	G22	G23	TOTAL	
AKRON																2								2	
ALBUQUERQUE - L																5	1								30
LOS ALAMOS			3	2	6							7													9
ATLANTA (OAK RIDGE)					9											1	2	1							12
BOSTON	2	2			1	1								2		1	2								32
CHICAGO	3	4	1	2	5	2	1	3	2	1			3	2		3									4
CINCINNATI	4																								5
CLEVELAND	5																	1							6
CONNECTICUT VALLEY						5										2									2
DALLAS-FORT WORTH														1							1				6
DAYTON							1	3								3									3
DETROIT																									4
HOUSTON	2	1				1										7	1				1				41
LOS ANGELES			4	5		2				8	3	5		5		7									2
MILWAUKEE	2																								14
NEW YORK										4					5	5									25
PHILADELPHIA	4		1	4										4	4	4	1								1
SAN DIEGO	1																		4						9
SAN FRANCISCO															3	2									1
SEATTLE						1									3	6				2					24
WASHINGTON							3					3		2	3	6				2		5			
TOTALS	29	7	9	14	26	9	1	3	2	10	10	15	3	16	15	40	5	6	2	2	10	-	-	-	232

GRAND TOTAL: 232

TABLE XXVIII - STUDENT BRANCHES, 1954

THE NUMBER OF STUDENT BRANCHES FORMED DURING 1954 WAS 3, 1 OF WHICH OPERATES AS AN IRE BRANCH, AND 2 OF WHICH OPERATE AS JOINT IRE-AIEE BRANCHES. THE TOTAL NUMBER OF STUDENT BRANCHES IS NOW 121, 91 OF WHICH OPERATE AS JOINT IRE-AIEE BRANCHES.

FOLLOWING IS A LIST OF THE STUDENT BRANCHES:

<u>SCHOOL</u>	<u>BRANCH</u>	<u>FORMED 1954</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	
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	
COLORADO, UNIVERSITY OF	IRE-AIEE	
COLORADO AGRICULTURAL AND MECHANICAL COLLEGE	IRE-AIEE	2/2/54
COLUMBIA UNIVERSITY	IRE-AIEE	
CONNECTICUT, UNIVERSITY OF	IRE-AIEE	

TABLE XXVIII - STUDENT BRANCHES, 1954 (CONT'D.)

<u>SCHOOL</u>	<u>BRANCH</u>	<u>FORMED 1954</u>
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	
MAINE, UNIVERSITY OF	IRE	
MANHATTAN COLLEGE	IRE-AIEE	
MARQUETTE UNIVERSITY	IRE-AIEE	

TABLE XXVIII - STUDENT BRANCHES, 1954 (CONT'D.)

<u>SCHOOL</u>	<u>BRANCH</u>	<u>FORMED 1954</u>
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 COLLEGE	IRE-AIEE	
MICHIGAN, UNIVERSITY OF	IRE-AIEE	
MINNESOTA, UNIVERSITY OF	IRE-AIEE	
MISSISSIPPI STATE COLLEGE	IRE	
MISSOURI SCHOOL OF MINES & METALLURGY	IRE-AIEE	
MISSOURI, UNIVERSITY OF	IRE-AIEE	
MONTANA STATE COLLEGE	IRE-AIEE	
NEBRASKA, UNIVERSITY OF	IRE-AIEE	
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	
NORTH DAKOTA, UNIVERSITY OF	IRE-AIEE	
NORTH DAKOTA AGRICULTURAL COLLEGE	IRE-AIEE	
NORTHEASTERN UNIVERSITY	IRE-AIEE	
NORTHWESTERN UNIVERSITY	IRE-AIEE	
NOTRE DAME, UNIVERSITY OF	IRE-AIEE	
OHIO STATE UNIVERSITY	IRE-AIEE	

TABLE XXVIII - STUDENT BRANCHES, 1954 (CONT'D.)

<u>SCHOOL</u>	<u>BRANCH</u>	<u>FORMED 1954</u>
OHIO UNIVERSITY	IRE-AIEE	
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	
RENSSELAER POLYTECHNIC INSTITUTE	IRE-AIEE	
RHODE ISLAND, UNIVERSITY OF	IRE-AIEE	
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	
STANFORD UNIVERSITY	IRE-AIEE	
STEVENS INSTITUTE OF TECHNOLOGY	IRE-AIEE	
SYRACUSE, UNIVERSITY OF	IRE-AIEE	
TENNESSEE, UNIVERSITY OF	IRE	
TEXAS, UNIVERSITY OF	IRE-AIEE	
TEXAS COLLEGE OF ARTS AND INDUSTRIES	IRE	11/9/54
TEXAS TECHNOLOGICAL COLLEGE	IRE-AIEE	

TABLE XXVIII - STUDENT BRANCHES, 1954 (CONT'D.)

<u>SCHOOL</u>	<u>BRANCH</u>	<u>FORMED 1954</u>
TOLEDO, UNIVERSITY OF	IRE-AIEE	
TORONTO, UNIVERSITY OF	IRE-AIEE	
TUFTS COLLEGE	IRE-AIEE	
TULANE UNIVERSITY	IRE-AIEE	
UTAH STATE AGRICULTURAL COLLEGE	IRE	
UTAH, UNIVERSITY OF	IRE-AIEE	
VERMONT, UNIVERSITY OF	IRE-AIEE	
VILLANOVA COLLEGE	IRE-AIEE	
VIRGINIA POLYTECHNIC INSTITUTE	IRE-AIEE	
VIRGINIA, UNIVERSITY OF	IRE-AIEE	
WASHINGTON UNIVERSITY	IRE-AIEE	2/2/54
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	