

REPORT OF THE SECRETARY

1958

To the Board of Directors
The Institute of Radio Engineers, Inc.

Gentlemen:

Again comes the Secretary's Report for the year 1958. General growth continues, membership being up from 64,773 at the end of 1957 to 71,361. The percentage of voting members to the total has risen. In fact, five years ago 28% of the total were voting members whereas now they number 59%. The number of Students has gone up 11%. Over the past five years Students have risen in number from 5,556 to 14,961.

Six new Sections bring the total number to 100.

The Report now includes information on Professional Group percentage increases and the number of affiliate members associated with each.

Your Secretary notes with satisfaction the 18% growth of the IRE publications as to editorial pages, the improved format of the Proceedings, the continued widespread activities of the Technical Department, the increases in size and activities of the Professional Groups, the larger Annual Convention, and the bigger figures displayed on the financial statements.

Respectfully submitted,

Haraden Pratt
Secretary

January 31, 1959

1958 - REPORT OF THE SECRETARY

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Table I - Total Membership Distribution by Grades as of December 31, 1958

Grade	As of Dec. 31, 1957		As of Dec. 31, 1958		As of Dec. 31, 1959	
	Number	% of Total	Number	% of Total	Number	% of Total
Fellow	770	1.1	770	1.1	615	1.1
Senior Member	8,536	12.0	7,845	11.0	6,486	11.5
Member	32,373	45.4	26,115	36.7	19,710	34.6
Voting Associate	14,721***	20.6	16,827**	23.6	18,879*	33.4
Student	14,961	20.9	13,446	18.9	10,384	18.7
Associate	71,361	98.5	64,773	89.4	55,494	98.5
					42,009	
					56,400	
Student			14,961			

Table IV - Analysis of Total Membership Distribution by Grade, 1958

	F(\$15)	SM(\$15)	SM(\$10)	M(\$15)	M(\$10)	YA(\$15)	A(\$15)	A(\$10)	S(\$5)	Total
Grand Total	6,677	1,189	17,949	11,876	303	2,351	7,472	13,844	65,298	71,361

Table II - Total Membership Distribution by Grade by Percentage as of December 31, 1958

Grade	Grade Percentage	Total Percentage
Fellow	1.1	
Senior Member	12.0	
Member	45.4	
Voting Associate	.5	59.0
Associate	20.1	79.1
Student	20.9	100.0

* Includes 388 Voting Associates
 ** Includes 352 Voting Associates
 *** Includes 330 Voting Associates

Table III - Comparison of Total Membership Distribution by Grades, 1956-1958

Grade	As of Dec. 31, 1958		As of Dec. 31, 1957		As of Dec. 31, 1956	
	Number	% of Total	Number	% of Total	Number	% of Total
Fellow	770	1.1	700	1.1	635	1.1
Senior Member	8,536	12.0	7,685	11.9	6,486	11.6
Member	32,373	45.4	26,115	40.3	19,110	34.6
Associate	14,721***	20.6	16,827**	25.9	18,879*	34.0
Student	14,961	20.9	13,446	20.8	10,384	18.7
Totals	71,361		64,773		55,494	

Table IV - Analysis of Total Membership Distribution by Grade, 1958

	F(\$15)	SM(\$15)	SM(\$10)	M(\$15)	M(\$10)	VA(\$15)	A(\$15)	A(\$10)	S(\$5)	Total
U.S. (inc. Hawaii)	687	6,677	1,189	17,949	11,876	303	5,351	7,422	13,844	65,298
U.S. Possessions (excl. Hawaii)		4		9	5		6	11	4	39
U.S. Overseas Military	2	31	6	116	147	1	89	34	23	449
Canada	29	174	35	633	565	12	211	514	884	3,057
Foreign	52	310	110	609	464	14	280	473	206	2,518
Totals	770	7,196	1,340	19,316	13,057	330	5,937	8,454	14,961	71,361

* Includes 388 Voting Associates

** Includes 352 Voting Associates

*** Includes 330 Voting Associates

Table V - Five-Year Analysis of U. S. and Foreign Membership

	<u>1958</u>	<u>1957</u>	<u>1956</u>	<u>1955</u>	<u>1954</u>
Total	71,361	64,773	55,494	47,388	41,778
U. S. and Possessions	65,786	59,961	51,551	43,977	38,923
Foreign (incl. Canada)	5,575	4,812	3,943	3,411	2,855
Per Cent Foreign	7.8	7.4	7.1	7.2	6.8

Table VI - Distribution of Members, by Grade, by Annual Dues Rate, 12/31/58

	<u>\$15.00</u>	<u>\$10.00</u>	<u>\$5.00</u>
Fellow	770		
Senior Member	7,196	1,340	
Member	19,316	13,057	
Voting Associate	330		
Associate	5,937	8,454	
Student			14,961
Totals	<u>33,549</u>	<u>22,851</u>	<u>14,961</u>

Table VII - Distribution of Membership by Region, by Section, by Grade as of 12/31/58

Region	Section	F	SM	M	VA	A	S	Section Total
1	Binghamton	1	34	222	1	64	88	410
	Boston	48	439	1,913	8	694	975	4,640
	Merrimack Valley S.	1	41	167	2	86	50	-
	New Hampshire S.		19	78	-	31	36	-
	Northern Vermont S.		5	18	-	7	22	-
	Buffalo-Niagara		47	213	2	92	51	405
	Connecticut	7	62	239	4	119	166	971
	Fairfield S.	8	54	204	2	87	19	-
	Elmira-Corning	1	18	76	-	26	11	132
	Erie	-	7	24	1	23	14	69
	Ithaca	2	15	59	-	20	54	150
	Rochester	2	76	234	18	72	60	462
	Rome-Utica	1	67	264	-	92	49	473
	Schenectady	13	80	160	2	46	125	426
Syracuse	19	144	486	-	158	107	914	
Western Mass.	3	13	98	1	40	109	264	
	Totals	106	1,121	4,455	41	1,657	1,936	9,316
2	Long Island	48	494	1,856	13	848	471	3,730
	New York	43	265	1,182	19	677	764	4,703
	Mid-Hudson S.	-	22	312	1	182	34	-
	Monmouth S.	14	107	275	3	111	35	-
	Westchester S.	8	101	310	8	149	81	-
	Northern New Jersey	86	593	1,557	23	671	506	3,436
	Princeton	38	100	267	-	99	105	609
	Totals	237	1,682	5,759	67	2,737	1,996	12,478

(Continued)

Table VII - Distribution of Membership by Region, by Section, by Grade as of 12/31/58

<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>
3	Atlanta	-	44	191	2	70	314	621
	Baltimore	9	180	682	2	242	107	1,222
	Central Florida	3	98	374	-	178	51	906
	Gainesville S.	1	17	40	-	10	134	-
	Florida West Coast	6	43	136	3	109	21	318
	Huntsville	-	14	150	-	52	120	506
	Memphis S.	-	-	18	-	16	7	-
	Nashville S.	1	4	36	-	8	80	-
	Miami	-	26	118	5	54	69	272
	North Carolina	-	33	154	3	58	42	514
	East. No. Car. S.	-	7	41	-	19	93	-
	West. No. Car. S.	-	4	28	1	17	14	-
	Northwest Florida	-	4	64	-	27	6	143
	Panama City S.	-	4	35	-	2	1	-
	Philadelphia	43	484	1,614	18	681	512	3,797
	Lancaster S.	3	38	124	-	67	37	-
	Lehigh Valley S.	-	17	53	4	18	84	-
	South Carolina	2	16	68	-	38	110	234
	Virginia	4	31	199	-	69	163	466
	Washington	58	523	1,444	24	584	377	3,010
	Totals	130	1,587	5,569	62	2,319	2,342	12,009

(Continued)

Table VII - Distribution of Membership by Region, by Section, by Grade as of 12/31/58

<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>
4	Akron	3	33	131	3	81	46	297
	Central Pennsylvania	1	29	72	-	11	122	235
	Cincinnati	5	46	215	3	73	78	420
	Cleveland	5	59	220	5	97	126	512
	Columbus	2	26	138	1	63	119	349
	Dayton	3	134	319	1	174	92	777
	USAFIT S.	1	5	28	-	17	3	
	Detroit	10	84	453	11	243	293	1,094
	Emporium	1	48	52	-	20	10	131
	Pittsburgh	10	66	281	2	143	177	679
	Toledo	-	10	72	1	41	34	158
	Western Michigan	-	42	16	2	31	24	115
	Williamsport	-	3	24	-	13	14	54
	Totals	41	585	2,021	29	1,007	1,138	4,821
5	Cedar Rapids	4	67	252	2	90	196	633
	Burlington S.	-	2	19	-	-	1	-
	Chicago	19	310	1,073	29	681	597	2,709
	Evansville-Owensboro	1	32	47	-	34	19	133
	Fort Wayne	2	31	126	1	51	15	226
	Indianapolis	3	50	165	1	73	221	513
	Louisville	1	3	46	-	20	97	167
	Milwaukee	4	24	223	5	133	399	788
	Omaha-Lincoln	-	15	78	3	42	108	246
	So. Bend-Mishawaka	-	23	128	-	50	35	236
	Twin Cities	5	37	371	3	136	329	881
	Totals	39	594	2,528	44	1,310	2,017	6,532

(Continued)

Table VII - Distribution of Membership by Region, by Section, by Grade as of 12/31/58

<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>
6	Beaumont- Port Arthur	-	4	33	-	27	42	106
	Dallas	7	146	471	-	152	106	882
	Denver	5	61	230	1	114	203	614
	El Paso	-	11	62	-	37	13	196
	Las Cruces- White Sands S.	-	4	43	-	17	9	-
	Fort Worth	-	36	206	2	65	54	363
	Houston	2	63	191	-	108	176	540
	Kansas City	-	42	182	1	141	239	605
	Little Rock	2	9	28	-	12	84	135
	Lubbock	-	2	29	-	21	44	96
	New Orleans	1	12	84	1	49	112	259
	Oklahoma City	-	13	143	1	36	100	293
	St. Louis	4	41	229	1	120	312	707
	San Antonio-Austin	2	33	120	-	50	147	352
	Shreveport	1	9	24	-	13	28	75
	Tulsa	2	15	92	-	71	111	291
	Wichita	-	1	58	-	1	41	101
	Totals	26	502	2,225	7	1,034	1,821	5,615

(Continued)

Table VII - Distribution of Membership by Region, by Section, by Grade as of 12/31/58

<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>
7	Alamogordo-Holloman	-	11	67	-	28	2	108
	Albuquerque-Los Alamos	-	79	271	-	114	122	586
	Anchorage	-	2	48	-	40	10	100
	China Lake	-	5	63	-	23	12	103
	Fort Huachuca	-	19	53	-	13	8	93
	Hawaii	-	7	47	1	40	4	99
	Los Angeles	28	471	1,832	11	665	343	6,740
	Buenaventura S.	-	12	79	-	21	10	-
	Orange Belt S.	5	64	278	1	101	55	-
	Pasadena S.	5	79	289	4	108	105	-
	San Fernando S.	3	177	613	4	242	53	-
	Santa Ana S.	4	120	438	3	170	42	-
	Santa Barbara S.	4	35	100	-	21	145	-
	Phoenix	4	65	264	-	102	101	536
	Portland	3	22	99	4	62	137	327
	Sacramento	1	11	89	3	44	42	190
	Salt Lake	1	13	104	-	32	185	335
	San Diego	1	83	467	3	156	90	800
	San Francisco	5	59	282	10	149	172	3,305
	East Bay S.	6	48	205	1	96	201	-
	Palo Alto S.	32	341	1,062	4	292	340	-
	Seattle	5	44	376	3	140	293	959
	Richland S.	-	3	46	1	15	33	-
	Tucson	1	25	96	-	35	89	246
	Totals	108	1,795	7,268	53	2,709	2,594	14,527

(Continued)

Table VII - Distribution of Membership by Region, by Section, by Grade as of 12/31/58

Region	Section	F	SM	M	VA	A	S	Section Total
8	Bay of Quinte	2	12	40	1	20	36	111
	Hamilton	-	12	48	1	35	28	197
	Kitchener-Waterloo S.	-	10	33	1	17	12	-
	London	-	8	37	-	42	36	123
	Montreal	8	55	325	5	135	83	611
	Newfoundland	-	-	25	-	17	6	48
	Northern Alberta	-	3	29	-	37	69	138
	Ottawa	10	47	165	-	80	51	353
	Quebec	-	1	50	-	27	45	123
	Regina	-	-	22	-	16	41	79
	Southern Alberta	-	1	33	-	39	73	146
	Toronto	6	45	279	3	172	222	727
	Vancouver	1	11	64	1	60	113	250
	Winnipeg	2	4	48	-	28	69	151
	Totals	29	209	1,198	12	725	884	3,057
-	Buenos Aires	2	17	46	-	43	9	117
-	Colombia	-	3	19	-	8	-	30
-	Egypt	-	3	14	-	6	3	26
-	Israel	-	6	31	-	29	1	67
-	Rio de Janeiro	1	3	22	-	18	3	47
-	Tokyo	3	54	73	-	101	43	274
	Totals	6	86	205	-	205	59	561
GRAND TOTALS		722	8,161	31,228	315	13,703	14,787	68,916

Table VIII - Distribution of Foreign Members - 1957 and 1958

<u>1958</u>	<u>1957</u>		<u>1958</u>	<u>1957</u>	
1	1	Aden Colony	64	59	Israel
6	8	Arabia	91	96	Italy
117	112	Argentina	274	204	Japan
2	3	Austria	1	0	Jordan
80	83	Australia	6	3	Korea
2	1	Bahama Islands	2	1	Kuwait
27	24	Belgium	10	8	Lebanon
6	5	Bermuda	0	1	Liberia
1	1	Bolivia	3	0	Libya
152	118	Brazil	8	6	Malaya
0	1	British Guiana	1	1	Malta
16	11	British West Indies	0	1	Mauritius
9	18	Burma	66	60	Mexico
3,057	2588	Canada	3	5	Morocco
3	4	Ceylon	52	35	Netherlands
8	9	Chile	6	9	New Zealand
30	22	Colombia	0	2	Nicaragua
2	4	Costa Rica	1	0	Nigeria
26	25	Cuba	26	23	Norway
1	0	Curacao	1	1	Okinawa
1	5	Cyprus	21	23	Pakistan
9	9	Czechoslovakia	2	3	Panama, Republic of
84	76	Denmark	8	8	Peru
2	0	Dominican Republic	15	13	Philippine Islands
1	1	Dutch Guiana	9	5	Poland
6	5	Ecuador	6	7	Portugal
26	22	Egypt	2	2	Romania
1	1	El Salvador	0	1	Saigon
419	374	England	17	14	Scotland
4	1	Ethiopia	4	4	Singapore
1	0	Fiji Islands	38	41	South Africa
1	3	Finland	15	14	Spain
5	3	Formosa	102	84	Sweden
136	120	France	79	71	Switzerland
75	60	Germany	1	0	Tahiti
27	25	Greece	1	0	Tanganyika
2	2	Guatemala	1	1	Tasmania
14	12	Hong Kong	6	5	Thailand
1	0	Hungary	9	15	Turkey
5	1	Iceland	4	3	Uruguay
174	151	India	10	11	U. S. S. R.
3	3	Indonesia	48	40	Venezuela
3	2	Iran	1	3	Wales
3	5	Iraq	1	1	Yugoslavia
11	8	Ireland			

	<u>1958</u>	<u>1957</u>	<u>Net Gain</u>
Grand Total	5,575	4,812	763

Table IX - Distribution of Foreign Members by Grade and Country as of 12/31/58

Country	F	SM		M		VA	A		S	Total
	\$15	\$15	\$10	\$15	\$10	\$15	\$15	\$10	\$5	
Aden Colony	-	-	-	1	-	-	-	-	-	1
Arabia	-	1	-	2	2	1	-	-	-	6
Argentina	2	16	1	23	22	-	20	24	9	117
Austria	-	-	-	-	1	-	-	1	-	2
Australia	1	16	3	23	6	5	9	13	4	80
Bahama Islands	-	-	-	-	1	-	-	-	1	2
Belgium	-	1	-	7	12	1	3	3	-	27
Bermuda	-	1	-	2	-	-	-	2	1	6
Bolivia	-	-	-	1	-	-	-	-	-	1
Brazil	1	6	1	22	27	-	18	21	56	152
British West Indies	-	-	-	6	3	-	3	4	-	16
Burma	-	1	-	-	-	-	1	6	1	9
Canada	29	174	35	633	565	12	211	514	884	3,057
Ceylon	-	-	-	1	-	-	1	1	-	3
Chile	-	1	-	2	-	-	1	4	-	8
Colombia	-	2	1	5	14	-	3	5	-	30
Costa Rica	-	-	-	-	-	-	2	-	-	2
Cuba	1	3	-	4	4	-	6	6	2	26
Curacao	-	-	-	-	-	-	-	-	1	1
Cyprus	-	-	-	1	-	-	1	-	-	2
Czechoslovakia	-	-	-	3	2	-	-	4	-	9

(Continued)

Table IX - Distribution of Foreign Members by Grade and Country as of 12/31/58

Country	F	SM		M		VA	A		S	Total
	\$15	\$15	\$10	\$15	\$10	\$15	\$15	\$10	\$5	
Denmark	1	4	1	13	11	-	6	10	38	84
Dominican Republic	-	-	-	-	1	-	-	1	-	2
Dutch Guiana	-	-	-	1	-	-	-	-	-	1
Ecuador	-	1	-	2	2	-	-	1	-	6
Egypt	-	3	-	11	3	-	2	4	3	26
El Salvador	-	-	-	1	-	-	-	-	-	1
England	20	83	17	132	85	3	36	30	13	419
Ethiopia	-	-	-	1	3	-	-	-	-	4
Fiji Islands	-	-	-	1	-	-	-	-	-	1
Finland	-	-	-	-	1	-	-	-	-	1
Formosa	-	-	-	2	1	-	2	-	-	5
France	4	25	13	34	21	1	14	24	-	136
Germany	5	14	16	7	12	-	4	13	4	75
Greece	-	-	1	8	3	-	4	11	-	27
Guatemala	-	-	-	1	-	-	1	-	-	2
Hong Kong	-	-	-	5	2	-	4	2	1	14
Hungary	-	-	-	-	-	-	1	-	-	1
Iceland	-	-	-	1	-	-	1	3	-	5
India	2	31	2	52	37	-	21	28	1	174
Indonesia	-	-	-	2	1	-	-	-	-	3
Iran	-	-	-	1	2	-	-	-	-	3
Iraq	-	-	-	-	2	-	-	1	-	3
Ireland	-	2	1	2	1	-	2	1	2	11

(Continued)

Table IX - Distribution of Foreign Members by Grade and Country as of 12/31/58

Country	F	SM		M		VA	A		S	Total
	\$15	\$15	\$10	\$15	\$10	\$15	\$15	\$10	\$5	
Israel	-	5	1	17	13	-	9	18	1	64
Italy	-	6	3	13	9	-	18	40	2	91
Japan	3	24	30	22	51	-	17	84	43	274
Jordan	-	-	-	-	1	-	-	-	-	1
Korea	-	-	-	1	2	-	-	3	-	6
Kuwait	-	-	-	-	-	-	1	1	-	2
Lebanon	-	-	-	6	2	-	2	-	-	10
Libya	-	-	-	-	1	-	-	2	-	3
Malaya	-	1	-	5	2	-	-	-	-	8
Malta	-	-	-	1	-	-	-	-	-	1
Mexico	1	7	2	14	12	1	4	15	10	66
Morocco	-	-	-	2	-	-	-	1	-	3
Netherlands	3	11	7	9	12	-	3	5	2	52
New Zealand	-	-	-	1	-	1	3	1	-	6
Nigeria	-	-	-	1	-	-	-	-	-	1
Norway	-	4	1	9	4	1	-	6	1	26
Okinawa	-	-	-	-	1	-	-	-	-	1
Pakistan	-	3	-	7	8	-	1	2	-	21
Panama, Republic of	-	-	-	1	-	-	1	-	-	2
Peru	-	1	-	6	-	-	1	-	-	8
Philippine Islands	-	1	-	5	3	-	3	2	1	15

(Continued)

Table IX - Distribution of Foreign Members by Grade and Country as of 12/31/58

Country	F	SM		M		VA	A		S	Total
	\$15	\$15	\$10	\$15	\$10	\$15	\$15	\$10	\$5	
Poland	-	-	2	1	-	-	-	6	-	9
Portugal	-	2	-	3	-	-	1	-	-	6
Romania	-	-	1	-	1	-	-	-	-	2
Scotland	1	1	1	6	3	-	3	2	-	17
Singapore	-	-	1	3	-	-	-	-	-	4
South Africa	-	6	-	14	8	-	7	3	-	38
Spain	-	2	-	6	2	-	2	3	-	15
Sweden	3	6	4	27	18	-	17	26	1	102
Switzerland	4	12	-	29	11	-	9	11	3	79
Tahiti	-	-	-	1	-	-	-	-	-	1
Tanganyika	-	-	-	1	-	-	-	-	-	1
Tasmania	-	-	-	1	-	-	-	-	-	1
Thailand	-	-	-	1	3	-	1	1	-	6
Turkey	-	1	-	3	1	-	1	3	-	9
Uruguay	-	-	-	2	-	-	1	1	-	4
U. S. S. R.	-	-	-	-	-	-	1	9	-	10
Venezuela	-	6	-	10	13	-	8	6	5	48
Wales	-	-	-	1	-	-	-	-	-	1
Yugoslavia	-	-	-	-	1	-	-	-	-	1
Totals	81	484	145	1,242	1,029	26	491	987	1,090	5,575

Table X - U.S. Possessions and Overseas Military Membership as of 12/31/58
- Geographical and Grade Breakdown, 1958, and Comparison 1957-1958

U.S. Possessions	F	SM		M		VA	A		S	Totals
	\$15	\$15	\$10	\$15	\$10	\$15	\$15	\$10	\$5	
Canal Zone	-	1	-	-	-	-	1	3	-	5
E. Caroline Islands	-	-	-	-	-	-	-	1	-	1
Mariana Islands	-	-	-	-	-	-	2	-	-	2
Puerto Rico	-	3	-	9	5	-	3	7	4	31
Hawaii	-	7	-	34	13	1	28	12	4	99
Totals		11		43	18	1	34	23	8	138

		1958	1957
Transfers from			
Voided Elections	Canal Zone	5	5
Deaths	E. Caroline Islands	1	1
Resignations	Mariana Islands	2	2
Delinquents	Puerto Rico	31	28
TOTAL	Hawaii	99	90
NET GAIN		138	126

Net Gain - 12

The net gain of 6,588 shown above compares with 9,279 for 1957.

Overseas Military	F	SM		M		VA	A		S	Totals
	\$15	\$15	\$10	\$15	\$10	\$15	\$15	\$10	\$5	
P.O. San Francisco	-	12	2	39	61	-	32	16	9	171
P.O. Seattle	-	-	-	-	1	-	1	-	-	2
P.O. New York, N.Y.	2	19	4	77	85	1	56	18	14	276
Totals	2	31	6	116	147	1	89	34	23	449

		1958	1957
Transfers to SM			
Transfers to P.O.	P.O. San Francisco	171	200
Transfers to P.O.	P.O. Seattle	2	13
TOTAL	P.O. New York, N.Y.	276	213
		449	426
Net Gain		- 23	

Table XI - Membership Change, by Grades, in 1958

<u>GAINS</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>S</u>	<u>Total</u>
Elections	1	556	2,745	1,061	7,876	12,239
Reinstatements	1	43	342	333	140	859
Transfers to	74	594	5,184	543	-	6,395
TOTAL GAIN	76	1,193	8,271	1,937	8,016	19,493
<hr/>						
<u>LOSSES</u>						
New Elections (Unpaid)	-	34	105	47	3	189
Transfers from	-	70	426	2,624	3,275	6,395
Voided Elections	-	1	8	26	-	35
Deaths	3	22	49	31	9	114
Resignations	3	21	199	279	190	692
Delinquents	-	194	1,226	1,036	3,024	5,480
TOTAL LOSS	6	342	2,013	4,043	6,501	12,905
<hr/>						
NET GAIN	70	851	6,258	-2,106	1,515	6,588

The net gain of 6,588 shown above compares with 9,279 for 1957.

Table XII - Analysis of Transfers, by Grades, 1958

<u>Transfers from</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>S</u>	<u>Total</u>
Transfers to F	70	4	-	-	74
Transfers to SM	-	422	172	-	594
Transfers to M	-	-	2,452	2,732	5,184
Transfers to A	-	-	-	543	543
TOTAL	70	426	2,624	3,275	6,395

Table XIII - Analysis of Higher Grade Applications for 1958

<u>Year</u>	<u>Higher Grade</u>	<u>Student</u>	<u>Approved</u>	<u>Rejected</u>
Admission Applications				
1912				
1913	Senior Member		556	60
1914				
1915	Member		2,745	160
1916				
1917				
Transfer Applications				
1918				
1919				
1920	Senior Member		594	39
1921				
1922	Member		5,184	32
1923				
1924				
1925				
1926				
1927				
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1954				
1955				
1956				
1957				
1958				

Table XIV - Life Members, by Grades, as of December 31, 1958

	<u>Domestic</u>	<u>Canadian</u>	<u>Foreign</u>	<u>Total</u>
Fellow	69	1	6	76
Senior Member	50	1	6	57
Member	18	-	2	20
Voting Associate	20	-	-	20
Associate	1	-	2	3
	<u>158</u>	<u>2</u>	<u>16</u>	<u>176</u>
1941				
1942				
1943				
1944				
1945				
1946				
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1951				
1952				
1953				
1954				
1955				
1956				
1957				
1958				

Table XV - Yearly Membership, 1912-1958

<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	6,288	115	(-331)	(-4.9)	6,403
1933	5,074	125	(-1,204)	(-18.8)	5,199
1934	4,011	229	(-959)	(-18.4)	4,240
1935	4,180	239	179	4.2	4,419
1936	4,896	299	776	17.6	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
1956	45,110	10,384	8,106	17.1	55,494
1957	51,327	13,446	9,279	16.7	64,773
1958	56,400	14,961	6,588	10.1	71,361

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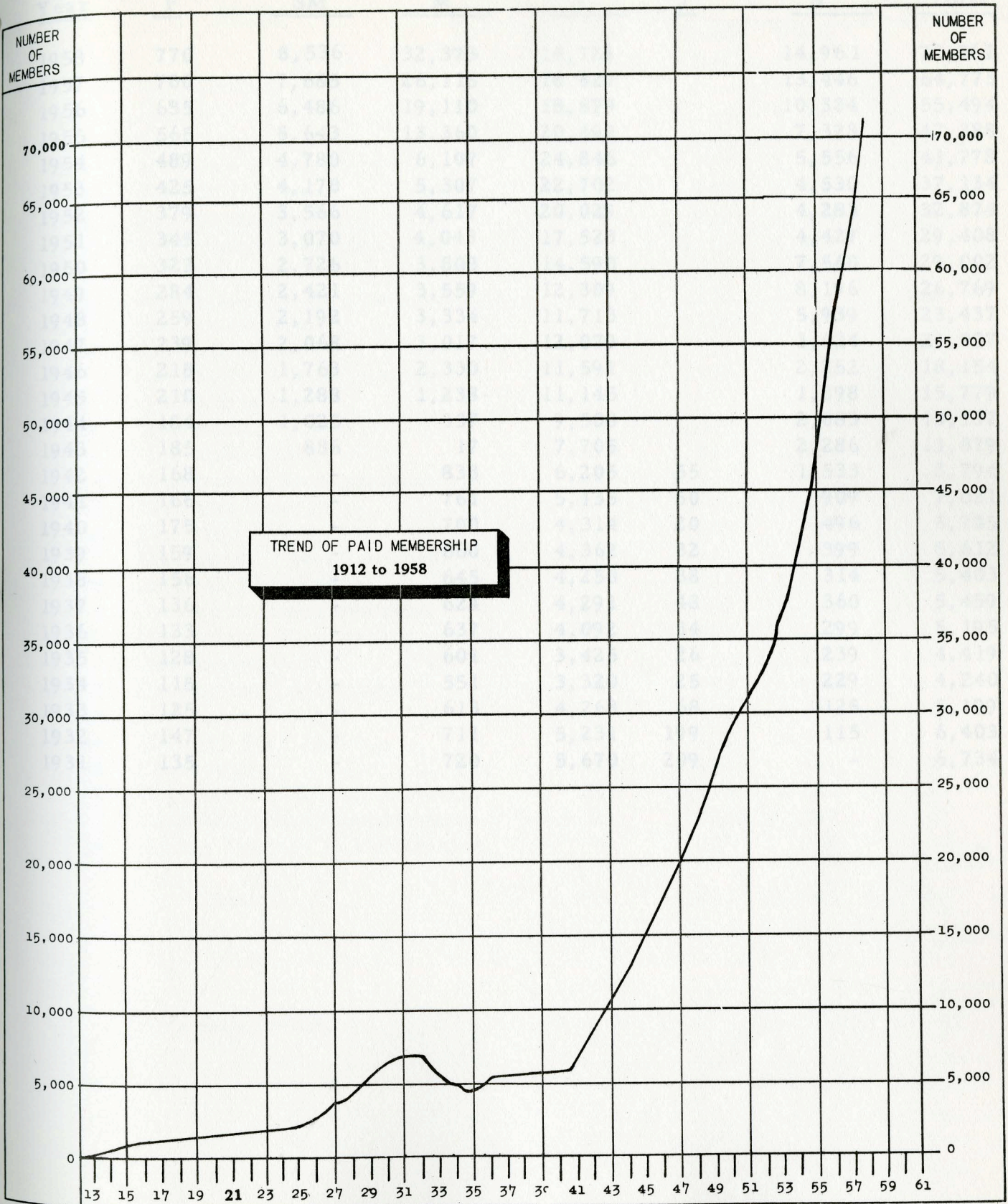


Table XVI - Membership Grade Breakdown, 1931 - 1958

<u>Year</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>J</u>	<u>S</u>	<u>Total</u>
1958	770	8,536	32,373	14,721		14,961	71,361
1957	700	7,685	26,115	16,827		13,446	64,773
1956	635	6,486	19,110	18,879		10,384	55,494
1955	565	5,643	13,360	20,492		7,328	47,388
1954	489	4,780	6,107	24,846		5,556	41,778
1953	425	4,170	5,307	22,702		4,530	37,134
1952	379	3,566	4,617	20,029		4,283	32,874
1951	345	3,070	4,043	17,523		4,427	29,408
1950	323	2,726	3,803	14,590		7,560	29,002
1949	284	2,421	3,559	12,309		8,196	26,769
1948	259	2,192	3,334	11,713		5,939	23,437
1947	239	2,068	3,017	12,079		3,634	21,037
1946	218	1,763	2,330	11,591		2,252	18,154
1945	210	1,288	1,238	11,145		1,898	15,779
1944	184	1,025	337	9,508		2,083	13,137
1943	185	886	17	7,705		2,286	11,079
1942	168	-	833	6,205	55	1,533	8,794
1941	166	-	761	5,135	50	909	7,021
1940	175	-	700	4,314	20	496	5,705
1939	159	-	660	4,362	32	399	5,612
1938	156	-	645	4,250	38	314	5,403
1937	136	-	624	4,291	48	360	5,459
1936	133	-	637	4,092	34	299	5,195
1935	128	-	601	3,425	26	239	4,419
1934	115	-	551	3,320	25	229	4,240
1933	125	-	613	4,268	68	125	5,199
1932	147	-	711	5,231	199	115	6,403
1931	135	-	720	5,670	209	-	6,734

G-26	Engineering Writing & Speech			41	1,003	1,044	378	2,366
G-27	Radio Frequency Interference			2	385	387	20	794
G-28	Human Factors in Electronics			5	205	210	*	420

Totals 5,403 66,633 72,041 65,766 6,375

* No fees levied

Table XVII - Professional Group Membership, by Groups, 1957, 1958
(Paid Membership Only)

Code	Group	1958			1957	Net Gain
		Student Discount	Other Paid	Total Paid		
G-1	Audio	612	3,736	4,348	4,324	24
G-2	Broadcasting	46	1,229	1,275	1,252	23
G-3	Antennas & Propagation	450	2,667	3,117	2,814	303
G-4	Circuit Theory	1,043	5,647	6,690	5,956	734
G-5	Nuclear Science	275	1,312	1,587	1,624	-37
G-6	Vehicular Communications	32	1,197	1,229	1,161	68
G-7	Reliability & Quality Control	25	1,430	1,455	1,369	86
G-8	Broadcast & Television Receivers	179	1,736	1,915	1,905	10
G-9	Instrumentation	2	3,708	3,710	3,422	288
G-10	Space Electronics & Telemetry	54	2,712	2,766	2,499	267
G-11	Aeronautical & Navigational Electronics	185	2,939	3,124	2,893	231
G-12	Information Theory	134	2,662	2,796	2,721	75
G-13	Industrial Electronics	152	1,742	1,894	1,785	109
G-14	Engineering Management	120	3,904	4,024	4,202	-178
G-15	Electron Devices	325	3,896	4,221	3,758	463
G-16	Electronic Computers	627	6,878	7,505	6,881	624
G-17	Microwave Theory & Techniques	295	3,739	4,034	3,607	427
G-18	Medical Electronics	135	1,576	1,711	1,661	50
G-19	Communications Systems	203	2,388	2,591	2,304	287
G-20	Ultrasonics Engineering	25	757	782	741	41
G-21	Component Parts	25	1,623	1,648	1,559	89
G-22	Production Techniques	16	873	889	821	68
G-23	Automatic Control	240	2,993	3,233	2,736	497
G-24	Military Electronics	143	3,252	3,395	3,221	174
G-25	Education	17	444	461	170	291
G-26	Engineering Writing & Speech	41	1,003	1,044	370	674
G-27	Radio Frequency Interference	2	385	387	10	377
G-28	Human Factors in Electronics	5	205	210	*	210
Totals		5,408	66,633	72,041	65,766	6,275

* No fees levied

Table XVIII - Five-Year Analysis of Professional Group Membership, 1954 - 1958
(Paid Membership Only)

<u>Code</u>	<u>Group</u>	<u>1954</u>	<u>1955</u>	<u>1956</u>	<u>1957</u>	<u>1958</u>
G-1	Audio	2,510	2,996	3,809	4,324	4,348
G-2	Broadcasting	729	838	1,119	1,252	1,275
G-3	Antennas & Propagation	1,344	1,700	2,362	2,814	3,117
G-4	Circuit Theory	2,565	3,258	4,510	5,956	6,690
G-5	Nuclear Science	802	1,008	1,381	1,624	1,587
G-6	Vehicular Communications	669	741	966	1,161	1,229
G-7	Reliability & Quality Control	520	659	1,021	1,369	1,455
G-8	Broadcast & Television Receivers	1,349	1,532	1,925	1,905	1,915
G-9	Instrumentation	2,127	2,429	2,986	3,422	3,710
G-10	Space Electronics & Telemetry	1,169	1,450	1,978	2,499	2,766
G-11	Aeronautical & Navigational Electronics	1,599	1,922	2,488	2,893	3,124
G-12	Information Theory	1,403	1,707	2,345	2,721	2,796
G-13	Industrial Electronics	1,064	1,361	1,624	1,785	1,894
G-14	Engineering Management	1,634	2,302	3,327	4,202	4,024
G-15	Electron Devices	1,359	1,871	2,843	3,758	4,221
G-16	Electronic Computers	2,896	3,916	5,461	6,881	7,505
G-17	Microwave Theory & Techniques	1,630	2,148	3,091	3,607	4,034
G-18	Medical Electronics	898	1,101	1,435	1,661	1,711
G-19	Communications Systems	966	1,340	1,944	2,304	2,591
G-20	Ultrasonics Engineering	325	456	632	741	782
G-21	Component Parts	600	800	1,284	1,559	1,648
G-22	Production Techniques	*	318	640	821	889
G-23	Automatic Control	*	709	1,856	2,736	3,233
G-24	Military Electronics	*	*	1,988	3,221	3,395
G-25	Education	*	*	*	170	461
G-26	Engineering Writing & Speech	*	*	*	370	1,044
G-27	Radio Frequency Interference	*	*	*	10	387
G-28	Human Factors in Electronics	*	*	*	*	210
Totals		28,158	36,562	53,015	65,766	72,041

* No fees levied

Table XIX - Professional Groups Percentage Increases, 1957, 1958
(excluding Groups established after 1955)

<u>Code</u>	<u>Group</u>	<u>1958</u> <u>Percentage Increase Over 1957</u>
G-23	Automatic Control	18.2
G-19	Communications Systems	12.4
G-15	Electron Devices	12.3
G-4	Circuit Theory	12.3
G-17	Microwave Theory & Techniques	11.8
G-3	Antennas & Propagation	10.8
G-10	Space Electronics & Telemetry	10.7
G-16	Electronic Computers	9.1
G-9	Instrumentation	8.4
G-22	Production Techniques	8.3
G-11	Aeronautical & Navigational Electronics	8.0
G-7	Reliability & Quality Control	6.3
G-13	Industrial Electronics	6.1
G-6	Vehicular Communications	5.8
G-21	Component Parts	5.7
G-20	Ultrasonics Engineering	5.5
G-24	Military Electronics	5.4
G-18	Medical Electronics	3.0
G-12	Information Theory	2.8
G-2	Broadcasting	1.8
G-1	Audio	.6
G-8	Broadcast & Television Receivers	.5
G-5	Nuclear Science	minus 2.3
G-14	Engineering Management	minus 4.2

<u>Code</u>	<u>Group</u>	<u>1957</u> <u>Percentage Increase Over 1956</u>
G-23	Automatic Control	47.4
G-7	Reliability & Quality Control	37.6
G-15	Electron Devices	32.2
G-4	Circuit Theory	32.1
G-22	Production Techniques	28.3
G-10	Space Electronics & Telemetry	26.4
G-14	Engineering Management	26.3
G-16	Electronic Computers	26.0
G-21	Component Parts	21.4
G-6	Vehicular Communications	20.1
G-3	Antennas & Propagation	19.1
G-19	Communications Systems	18.5
G-5	Nuclear Science	17.6
G-20	Ultrasonics Engineering	17.3
G-17	Microwave Theory & Techniques	16.7
G-11	Aeronautical & Navigational Electronics	16.3
G-12	Information Theory	16.0
G-18	Medical Electronics	15.7
G-9	Instrumentation	14.6
G-1	Audio	13.5
G-2	Broadcasting	11.9
G-13	Industrial Electronics	9.9
G-8	Broadcast & Television Receivers	minus 1.0

Table XX - Affiliates by Group, 1957 - 1958

<u>Code</u>	<u>Group</u>	<u>1957</u>	<u>1958</u>	<u>Gain</u>
G-1	Audio	2	5	3
G-2	Broadcasting	-	-	-
G-3	Antennas and Propagation	-	1	1
G-4	Circuit Theory	2	2	-
G-5	Nuclear Science	5	9	4
G-6	Vehicular Communications	-	1	1
G-7	Reliability & Quality Control	1	21	20
G-8	Broadcast & Television Receivers	-	-	-
G-9	Instrumentation	2	2	-
G-10	Space Electronics & Telemetry	-	1	1
G-11	Aeronautical & Navigational Electronics	-	-	-
G-12	Information Theory	7	16	9
G-13	Industrial Electronics	-	-	-
G-14	Engineering Management	2	3	1
G-15	Electron Devices	7	8	1
G-16	Electronic Computers	15	55	40
G-17	Microwave Theory & Techniques	1	2	1
G-18	Medical Electronics	47	104	57
G-19	Communications Systems	-	-	-
G-20	Ultrasonics Engineering	1	7	6
G-21	Component Parts	-	-	-
G-22	Production Techniques	2	2	-
G-23	Automatic Control	5	9	4
G-24	Military Electronics	8	9	1
G-25	Education	-	4	4
G-26	Engineering Writing & Speech	-	18	18
G-27	Radio Frequency Interference	4	-	- 4
G-28	Human Factors in Electronics	-	-	-
	Totals	111	279	168

Table XXI - Deceased Members - 1958

It is with deep regret that this office records the death of the following members of the IRE during the year 1958.

FELLOWS

Barkley, William J. (M'29, SM'43, F'56, L'56)
Gustafson, Gilbert E. (A'27, M'38, F'40)
Hallborg, Henry Emanuel (F'45, L'57)

SENIOR MEMBERS

Arnson, Ludwig (M'33, SM'43)
Burnside, Don G. (A'12, SM'46, L'56)
Campbell, Charles A. (SM'52)
Crom, George Curtis (A'22, M'24, SM'43, L'57)
Daly, George M. (A'44, SM'52)
Donnelly, Clarence P. (SM'57)
Exon, Frank C. (A'38, SM'47)
Fitzsimmons, David P. (SM'51)
Fox, Benjamin (SM'54)
Giguere, Edmour F. (SM'52)
Gretener, Edgar (SM'57)
Hasenberg, Werner (SM'53)
Jacobsen, Lance R. (SM'57)
Johnston, Harry C. (SM'53)
Link, Louis J. (A'30, SM'57)
Lippincott, Donald K. (SM'43)
Metcalf, Herbert E. (M'35, SM'43)
Scott, Milton C., Jr. (A'31, SM'50)
Talmage, Franklin E. (A'41, SM'49)
Toulon, Pierre Marie Gabriel (SM'47)
Wick, Edwin L. (SM'46)
Wiegand, Erich P. (SM'56)

MEMBERS

Armstrong, Albert B. (A'50, M'55)
Bosley, Clement T. (S'54, M'57)
Bruno, Theodore P. (M'54)
Buffington, Guy B. (M'58)
Creutz, Patrick M. (M'57)
Davis, Don L. (M'52)
Dembinski, Leonard J. (A'49, M'55)
Dionne, James H. (S'50, A'52, M'56)
Durkee, Chauncey H. (M'49)
Dymond, Clifton W. (A'36, M'55)
Earley, John M. (A'48, M'54)
Easley, Lowry E. (M'47)
Elliott, L. W. (A'39, M'55)

MEMBERS

Emmons, Albert W. (S'48, A'49, M'55)
Fountain, Henry F. (A'48, M'55)
Francis, M. Clifford (A'44, M'55)
Gould, Roderick (S'55, M'58)
Handler, Joseph E. (M'47)
Jacobs, Herbert, Jr. (S'43, A'47, M'55)
Johnson, Harold S. (M'50)
Joyce, Maurice V. (S'51, A'52, M'56)
Kaplan, Jack (S'44, A'50, M'55)
Kelly, Joseph M., Jr. (A'43, M'55)
Kenyon, F. Ralph (A'38, M'55)
Kohler, Ernest, Jr. (A'31, M'55)
Koziuk, Frank S. (M'56)
Lyet, Louis F. (M'57)
Marsh, Mendole D. (M'53)
McCoy, John G. (S'49, A'51, M'56)
Morris, Robert (A'46, M'55)
Muller, John S. (A'51, M'56)
Museus, Hjalmer U. (A'47, M'55)
Palmer, Vinson L. (S'39, A'41, M'44)
Paluthe, Wilfred F. S. (S'56, M'57)
Pegram, George B. (A'12, VA'39, M'55, L'47)
Price, Osborne I. (A'43, M'55)
Read, Cyrus T. (A'43, M'55)
Robidoux, Finley T. (A'46, M'55)
Scheck, James A. (M'58)
Seabury, Edwin M. (M'50)
Shubert, H. Neal (A'46, M'55)
Stautner, Paul L. (M'48)
Sykes, Stephen D. (M'55)
Trinkle, Wilmer S. (M'49)
Van Nostrand, Albert W. (S'55, M'57)
Watts, Wilbur E. (M'46)
Wellendorf, Joseph J. (A'36, M'45)
Wiegerinck, Hendrikus T. J. (M'54)
Williams, Robert E. (A'44, M'48)

VOTING ASSOCIATES

Jones, Benjamin F., Jr. (A'39, VA'39)
Lyon, Henry H. (A'14, VA'39)
Waite, Samuel A. (A'22, VA'39)

ASSOCIATES

Alonso, Carlos J. (A'51)
Barsky, Norton (S'53, A'54)
Becker, Otto F. (A'57)
Benson, William J. (A'56)

Table XXI - Deceased Members - 1957 - Continued

ASSOCIATES

Brabec, Rudolph J. (A'57)
 Bradish, Walter M. (A'51)
 Buck, Harold W. (A'56)
 Chenoweth, William G. (A'51)
 Crouser, Earl E. (A'53)
 Dennison, George L. (A'54)
 Driggs, Lee O. (A'44)
 Fuchs, George W. (S'50, A'53)
 Gnewotta, Milton R. (S'56, A'57)
 Grinberg, Eduardo (A'51)
 Johnson, William H. (A'55)
 Lambert, Gerald M. (S'50, A'53)
 Marcinko, Frank C. (A'46)
 McMillan, Dayton N. (A'53)
 O'Reilly, Thomas F. (A'56)
 Remorenko, Michael S. (A'52)
 Roka, Edward G. (A'54)
 Ross, Nicholas E. (A'57)
 Schwartz, Chris N. (A'55)
 Scrimshire, John B. (S'43, A'45)
 Stoffel, Lester L. (A'35)
 Taylor, Marvin A. (A'56)
 Van Allen, John W. (A'52)
 Walker, Richard D. (A'53)

STUDENTS

De Vries, Ramon A. (S'57)
 Larue, Jean (S'57)
 Mitchell, Don E. (S'57)
 Mooney, Philip L. (S'56)
 Neumann, Richard G. (S'56)
 Noble, Robert G. (S'57)
 Perrone, Gerard T. (S'57)
 Shay, Lynn (S'57)
 Sullivan, Thomas D. (S'57)

Date	Net Space Occupied	Papers Presented	Location
Jan. 18-19	0	1	New York, N. Y.
Jan. 10-12	0	2	New York, N. Y.
Jan. 9-11	0	9	New York, N. Y.
May 13-15	0	57	Washington, D. C.
Aug. 18-21	0	23	Toronto, Canada
June 4-6	0	19	Chicago, Ill.
April 7-9	0	23	Pittsburgh, Pa.
June 26-28	0	24	Chicago, Ill.
May 28-30	0	32	Philadelphia, Pa.
July 1-3	0	21	Detroit, Mich.
May 11-13	0	19	Cleveland, Ohio
May 10-12	0	30	New York, N. Y.
May 15-17	0	49	New York, N. Y.
Sept. 20-23	0	26	New York, N. Y.
June 27-29	0	44	Boston, Mass.
Jan. 7-11	0	28	New York, N. Y.
(Winter)	0	0	
June 23-25	0	33	Detroit, Mich.
(Summer)	0	0	
Jan. 12-14	0	25	New York, N. Y.
(Winter)	0	0	
June 25-29	0	23	Cleveland, Ohio
& July	0	0	
(Summer)	0	0	
Jan. 28	0	11	New York, N. Y.
Jan. 28-29	0	22	New York, N. Y.
Jan. 24-27	0	43	New York, N. Y.
Jan. 23-26	571	80	New York, N. Y.
Mar. 3-6	545	118	New York, N. Y.
Mar. 21-25	559	130	New York, N. Y.
Mar. 7-10	549	144	New York, N. Y.
Mar. 6-9	558	163	New York, N. Y.
Mar. 19-22	562	198	New York, N. Y.
Mar. 3-6	536	211	New York, N. Y.
Mar. 23-26	593	214	New York, N. Y.
Mar. 22-25	579	242	New York, N. Y.
Mar. 21-24	504	248	New York, N. Y.
Mar. 19-22	551	277	New York, N. Y.
Mar. 18-21	557	284	New York, N. Y.
Mar. 24-27	555	285	New York, N. Y.

* Figures not available
 ** Estimated
 *** Reduction in attendance due to severe blizzard

Table XXII - 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. An exhibition of radio-electronic equipment became a part of the annual convention activities in 1930. The growth in Convention activities, from the first convention held in 1926 through 1958, is indicated in the comparison figures itemized below:

<u>Date</u>	<u>Year</u>	<u>Attend- ance</u>	<u>Exhibits</u>	<u>Firms Repre- sented</u>	<u>Net Space Occupied</u>	<u>Papers Presented</u>	<u>Location</u>
Jan. 18-19	1926	*	0	0	0	6	New York, N. Y.
Jan. 10-12	1927	425**	0	0	0	5	New York, N. Y.
Jan. 9-11	1928	800	0	0	0	9	New York, N. Y.
May 13-15	1929	555	0	0	0	37	Washington, D. C.
Aug. 18-21	1930	575	20**	*	*	23	Toronto, Canada
June 4-6	1931	400	50	*	*	19	Chicago, Ill.
April 7-9	1932	461	25**	*	*	23	Pittsburgh, Pa.
June 26-28	1933	487	35	*	*	24	Chicago, Ill.
May 28-30	1934	940	56	*	*	32	Philadelphia, Pa.
July 1-3	1935	586	34	*	*	21	Detroit, Mich.
May 11-13	1936	360	40	*	*	19	Cleveland, Ohio
May 10-12	1937	1,189	37	*	*	30	New York, N. Y.
May 15-17	1938	1,866	29	*	*	49	New York, N. Y.
Sept. 20-23	1939	1,668	34	*	*	26	New York, N. Y.
June 27-29	1940	1,071	35**	*	*	44	Boston, Mass.
Jan. 9-11	1941	1,310	30**	*	*	28	New York, N. Y.
(Winter)							
June 23-25	1941	353	0	0	0	33	Detroit, Mich.
(Summer)							
Jan. 12-14	1942	1,790	30**	*	*	25	New York, N. Y.
(Winter)							
June 29-30 & July 1	1942	256	0	0	0	23	Cleveland, Ohio
(Summer)							
Jan. 28	1943	1,750	0	0	0	11	New York, N. Y.
Jan. 28-29	1944	1,704	0	0	0	22	New York, N. Y.
Jan. 24-27	1945	3,000	39	*	*	43	New York, N. Y.
Jan. 23-26	1946	7,200	135	1,571	13,200'***	88	New York, N. Y.
Mar. 3-6	1947	12,013	177	2,845	20,830'	118	New York, N. Y.
Mar. 22-25	1948	14,459	180	3,059	25,900'	130	New York, N. Y.
Mar. 7-10	1949	15,710	225	3,427	30,700'	144	New York, N. Y.
Mar. 6-9	1950	17,689	253	4,088	33,600'	163	New York, N. Y.
Mar. 19-22	1951	22,919	277	5,082	45,672'	198	New York, N. Y.
Mar. 3-6	1952	28,673	365	6,306	54,246'	211	New York, N. Y.
Mar. 23-26	1953	35,642	412	7,493	63,033'	214	New York, N. Y.
Mar. 22-25	1954	39,302	605	8,799	87,192'	242	New York, N. Y.
Mar. 21-24	1955	42,133	704	9,504	95,782'	248	New York, N. Y.
Mar. 19-22	1956	41,017***	716	8,851	98,684'	277	New York, N. Y.
Mar. 18-21	1957	53,811	840	11,757	105,240'	284	New York, N. Y.
Mar. 24-27	1958	55,811	950	12,555	110,828'	285	New York, N. Y.

* Figures not available

** Estimated

*** Reduction in attendance due to severe blizzard

Table XXIII - Summary of Income and Expense, 1958

ASSETS

INCOME

Advertising	\$ 1,243,535	
Member Dues and Convention	1,395,384	
Subscriptions	179,634	
Sales Items: Binders, Emblems, etc.	167,195	
Investment Income	39,181	
Miscellaneous Income	1,783	
	<hr/>	
Total Income		\$ 3,026,712

EXPENSE

Proceedings Editorial Pages	\$ 486,036	
Advertising Pages	626,080	
Directory	249,359	
Section Rebates	71,820	
Student Program	105,292	
Professional Group Expense	182,407	
Sales Items	122,499	
General Operations	501,520	
Convention Cost	412,779	
	<hr/>	
Total Expense		<u>2,757,792</u>
Reserve for Future Operations - Gross		\$ 268,920
Depreciation		<u>22,344</u>
Reserve for Future Operations - Net		<u>\$ 246,576</u>

Table XXIV - Balance Sheet - December 31, 1958

ASSETS

Cash and Accounts Receivable	\$ 645,997	
Inventory	<u>34,244</u>	
Total Current Assets		\$ 680,241

Investments at Cost	1,490,478	
Building and Land at Cost	912,317	
Furniture and Fixtures at Cost	241,989	
Other Assets	<u>77,786</u>	

Total		<u>2,722,570</u>
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Total Assets		<u>\$ 3,402,811</u>
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LIABILITIES AND SURPLUS

Accounts Payable	\$ <u>72,519</u>	
Total Current Liabilities		\$ 72,519

Deferred Income	879,073	
Professional Group Funds on Deposit	<u>217,822</u>	<u>1,096,895</u>

Total Liabilities		1,169,414
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Reserve for Depreciation		81,112
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Surplus Donated	595,287	
Surplus	<u>1,556,998</u>	

Total Surplus		<u>2,152,285</u>
----------------------	--	------------------

Total Liabilities and Surplus		<u>\$ 3,402,811</u>
--------------------------------------	--	---------------------

	1958	1957	1956	1955
Advertising	2167	2700	2800	2372
TOTAL	<u>4368</u>	<u>4548</u>	<u>4796</u>	<u>3986</u>

The increase in PROCEEDINGS editorial output was due primarily to the appearance of a special issue on Radio Astronomy in January, another on Transistors in June, timed to coincide with the tenth anniversary of the transistor,

Table XXV - Editorial Department

PROCEEDINGS OF THE IRE

Several important changes were adopted by the Editorial Board during 1958 in order to increase the value and utility of the PROCEEDINGS to the membership. A new monthly feature, called "Scanning the Transactions," was inaugurated with the February issue in order to single out and interpret for the general reader some of the significant or unusual work that is reported in IRE publications he may not normally see, i. e., the TRANSACTIONS, the NATIONAL and WESCON CONVENTION RECORDS, and the STUDENT QUARTERLY. In April the table of contents was expanded to two pages and transferred from the editorial section to the front of the magazine so that it may be found more readily. At the same time the IRE News and Notes Section, because it is not of permanent reference value, was moved to the front portion of the advertising section.

In addition to improvements in format and content, the number of editorial pages was increased 18% over the previous year, reaching an all-time high of 2,199 pages, as shown in Table 1 and Fig. 1. At the same time the over-all total for all IRE publications reached a new high of 119 issues totaling 15,140 pages.

Table 1 - Volume of PROCEEDINGS Pages

	<u>1958</u>	<u>1957</u>	<u>1956</u>	<u>1955</u>
Editorial	2199	1868	1996	2060
Advertising	2169	2700	2800	2372
TOTAL	4368	4568	4796	3956

The increase in PROCEEDINGS editorial output was due primarily to the appearance of a special issue on Radio Astronomy in January, another on Transistors in June, timed to coincide with the tenth anniversary of the transistor,

and a special series of reports in July on the URSI Twelfth General Assembly. In addition, the Correspondence section continued to expand, with 180 letters to the Editor being published during the year as compared with 146 the previous year.

The volume of material reviewed for PROCEEDINGS remained about the same as the previous year. A total of 294 papers comprising 2,195 pages were considered. Of these, 31% were accepted, 35% were referred to the TRANSACTIONS for publication consideration, and 34% were rejected. The number of papers published, 183, was substantially larger than the 1957 total of 130. Seven IRE Standards also appeared during the year.

TRANSACTIONS

The year 1958 saw the TRANSACTIONS output of the Professional Groups continue to increase, as shown in Fig. 1 and Table 2. The total number of papers and letters published, 799, represented half of the total number published in all IRE publications during the year (1,610). The number of Groups employing letterpress printing increased to 19, and the proportion of pages printed by letterpress increased from 66% to 80%.

IRE CONVENTION RECORDS

The practice of publishing CONVENTION RECORDS for the National and Wescon Conventions was continued. The 1958 IRE NATIONAL CONVENTION RECORD, containing 252 papers and 15 abstracts totaling 2,144 pages, was issued in ten parts. The IRE WESCON CONVENTION RECORD contained 180 papers and 14 abstracts totaling 1,576 pages, and was issued in nine parts.

IRE STUDENT QUARTERLY

Four issues, totaling 208 pages, were sent free to IRE student members during the year. In addition, approximately 20,000 free copies of the September issue

were distributed to all non-IRE junior and senior electrical engineering students.

IRE DIRECTORY

The 1959 IRE DIRECTORY was published in November, containing 1,152 pages including covers, of which 516 were membership listings and information and 636 were advertisements and listings of manufacturers and products.

CONFERENCE PUBLICATIONS

The Proceedings of the 1957 Eastern Joint Computer Conference, sponsored jointly by the IRE, AIEE and Association for Computing Machinery, was published by the IRE Editorial Department in June, 1958. The issue contained 264 pages.

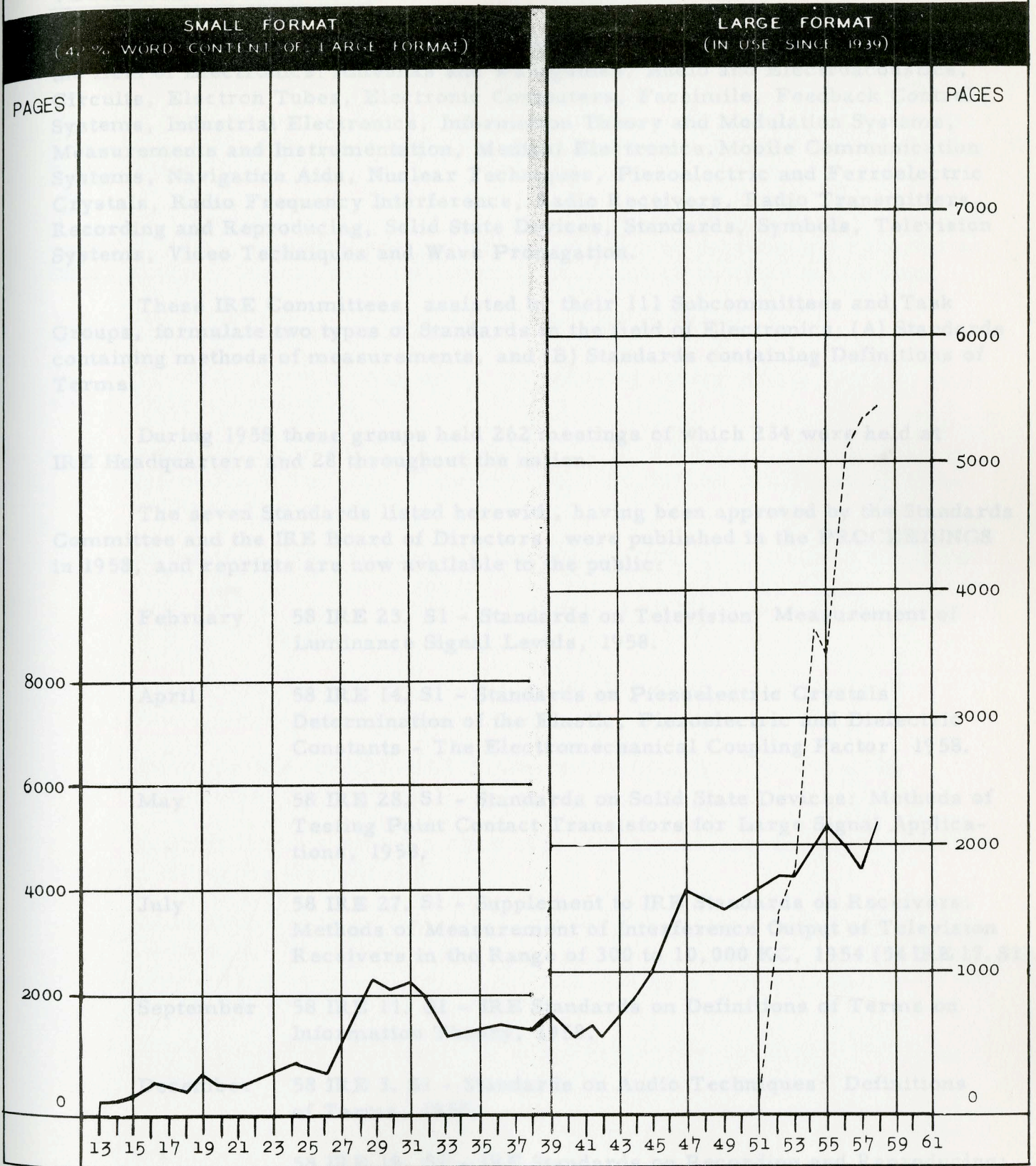
Electron Devices	4	319
Electronic Computers	4	340
Engineering Management	4	374
Engineering Writing and Speech	2	86
Industrial Electronics	3	332
Information Theory	4	200
Instrumentation	3	352
Medical Electronics	4	204
Microwave Theory and Techniques	4	424
Military Electronics	1	32
Nuclear Science	3	236
Production Techniques	1	80
Reliability and Quality Control	3	196
Space Electronics and Telemetry	1	48
Ultrasonics Engineering	0	0
Verbal Communications	2	150
	31	5,388

Table 2 - Volume of TRANSACTIONS Pages, 1958

	<u>Issues</u>	<u>Pages</u>
Aeronautical and Navigational Electronics	4	244
Antennas and Propagation	4	416
Audio	6	168
Automatic Control	3	140
Broadcast and Television Receivers	4	312
Broadcasting	3	88
Circuit Theory	4	344
Communications Systems	2	80
Component Parts	4	184
Education	4	140
Electron Devices	4	344
Electronic Computers	4	348
Engineering Management	4	176
Engineering Writing and Speech	2	80
Industrial Electronics	3	332
Information Theory	4	200
Instrumentation	3	352
Medical Electronics	4	204
Microwave Theory and Techniques	4	484
Military Electronics	1	52
Nuclear Science	3	236
Production Techniques	1	80
Reliability and Quality Control	3	196
Space Electronics and Telemetry	1	48
Ultrasonics Engineering	0	0
Vehicular Communications	2	160
	<u>81</u>	<u>5,388</u>

VOLUME OF TECHNICAL AND EDITORIAL MATTER PUBLISHED IN THE PROCEEDINGS AND THE TRANSACTIONS

1913 to 1958



- - - - - TRANSACTIONS
 _____ PROCEEDINGS

TECHNICAL COMMITTEES

IRE sponsors 25 Technical Committees covering the following phases of the field of Electronics: Antennas and Waveguides, Audio and Electroacoustics, Circuits, Electron Tubes, Electronic Computers, Facsimile, Feedback Control Systems, Industrial Electronics, Information Theory and Modulation Systems, Measurements and Instrumentation, Medical Electronics, Mobile Communication Systems, Navigation Aids, Nuclear Techniques, Piezoelectric and Ferroelectric Crystals, Radio Frequency Interference, Radio Receivers, Radio Transmitters, Recording and Reproducing, Solid State Devices, Standards, Symbols, Television Systems, Video Techniques and Wave Propagation.

These IRE Committees, assisted by their 111 Subcommittees and Task Groups, formulate two types of Standards in the field of Electronics: (A) Standards containing methods of measurements, and (B) Standards containing Definitions of Terms.

During 1958 these groups held 262 meetings of which 234 were held at IRE Headquarters and 28 throughout the nation.

The seven Standards listed herewith, having been approved by the Standards Committee and the IRE Board of Directors, were published in the PROCEEDINGS in 1958, and reprints are now available to the public:

- | | |
|-----------|---|
| February | 58 IRE 23. S1 - Standards on Television: Measurement of Luminance Signal Levels, 1958. |
| April | 58 IRE 14. S1 - Standards on Piezoelectric Crystals: Determination of the Elastic, Piezoelectric and Dielectric Constants - The Electromechanical Coupling Factor, 1958. |
| May | 58 IRE 28. S1 - Standards on Solid State Devices: Methods of Testing Point Contact Transistors for Large Signal Applications, 1958. |
| July | 58 IRE 27. S1 - Supplement to IRE Standards on Receivers: Methods of Measurement of Interference Output of Television Receivers in the Range of 300 to 10,000 KC, 1954 (54 IRE 17. S1). |
| September | 58 IRE 11. S1 - IRE Standards on Definitions of Terms on Information Theory, 1958. |
| December | 58 IRE 3. S1 - Standards on Audio Techniques: Definitions of Terms, 1958. |
| | 58 IRE 19. S1 - IRE Standards on Recording and Reproducing: Methods of Calibration of Mechanically Recorded Lateral Frequency Records, 1958. |

In addition to the preceding, 58 IRE 20. S1 - Index to IRE Standards on Definitions of Terms, 1942-1957 was published in the February PROCEEDINGS.

IRE is directly represented on 33 Committees of the American Standards Association and sponsors three; the ASA Sectional Committee on Radio and Electronic Equipment, C16; the ASA Sectional Committee on Sound Recording, Z57; and the ASA Sectional Committee on Nuclear Instrumentation, N3. One IRE Standard received approval of the American Standards Association as an American Standard in 1958, and is now available overseas through the International Standards Organization.

IRE Technical Committees actively participated in international standardization in 1958 by reviewing and preparing comments on documents for the United States National Committee of the International Electrotechnical Commission.

APPOINTED INSTITUTE DELEGATES ON OTHER BODIES

The IRE appointed delegates to the following bodies for the one-year period - May 1, 1958 to April 30, 1959.

American Standards Association Inc. , U.S. Advisory Committee of International Technical Committee 69 on Statistical Treatment of Series of Observations (ISO/TC 69).

International Electrotechnical Commission (IEC) U.S. National Committee.

International Radio Consultative Committee (CCIR) Executive Committee of U.S. Delegation.

International Scientific Radio Union (URSI) Executive Committee of U.S. National Committee.

Joint IRE-EIA-SMPTE-NARTB Committee (JCIC) for Inter-Society Coordination (Television).

In addition to the above, the IRE appointed representatives to serve on the following bodies for the year 1958.

Council for the American Association for Advancement of Science (Section M - Engineering).

Instrument Society of America.

International Radio Conference, U.S. Preparatory Committee (PC/IRC)- Executive Committee I.

National Academy of Sciences-National Research Council, Advisory Board of the Office of Critical Tables.

National Bureau of Standards, IRE Technical Advisory Committee.

National Electronics Conference.

National Research Council, Division of Engineering and Industrial Research.

The Annual Spring Meeting of the International Scientific Radio Union (URSI) was held on April 24, 25 and 26, 1958 in Washington, D. C. The Fall meeting was held on October 21 and 22, 1958 in University Park, Pennsylvania. The XXIIth General Assembly of URSI was held on August 22 through September 5, 1957 in Boulder, Colorado. The XIIIth General Assembly of URSI will be held on September 5 through 15, 1960 at the University College of the University of London, London, England.

During 1958, the Executive Committee of the U. S. Preparatory Committee of the International Radio Consultative Committee (CCIR) held six meetings. At these meetings, the representatives of the fourteen Study Groups summarized and reported on their activities. Numerous responses to the questions under review by the Study Groups have been received in IRE during 1958. Lists of all material received from these organizations were distributed quarterly to the Chairmen of IRE Technical Committees and Professional Groups, as well as to The Joint Technical Advisory Committee.

In October 1958, the Executive Committee of the CCIR established a working committee, called "Government-Industry Arrangements Committee" to prepare ways and means and to administer the CCIR Ninth Plenary Assembly. This will be held at the Hotel Biltmore, Los Angeles, California, April 1 through 29, 1959. Two meetings have been held to date and the committee structure is being formed.

In June 1958, the Department of State organized a committee to prepare U. S. Proposals for the International Telecommunication Union Plenipotentiary Conference (PC/PC to be held in Geneva in October 1959). At present two Ad Hoc Committees have been established, one will deal with the administration of ITU funds and the other concerns proposals to amend the Radio, Telegraph and Telephone Regulations between International Conferences. Several meetings have been held to date.

THE JOINT TECHNICAL ADVISORY COMMITTEE

The Joint Technical Advisory Committee held a total of eight meetings for the period July 1, 1957 through June 30, 1958. A Tenth Anniversary dinner was held in May 1958.

Volume XV, the cumulative Annual Report of the JTAC Proceedings was published in 1958. This includes in Section I - Official Correspondence between the Federal Communications Commission and The Joint Technical Advisory Committee (IRE-EIA). Also included were other items of correspondence pertinent to the activities of the JTAC. Section II of the Report contained approved Minutes of Meetings of The Joint Technical Advisory Committee for the period July 1, 1957 through June 30, 1958.

The JTAC Subcommittee, Cooperative Interference Committees (57. 1) was established on January 24, 1957 to enlist the cooperation of the IRE Sections and Professional Groups in the publicizing of the "Cooperative Interference Committees project" of the JTAC. This Subcommittee completed its work assignments and was discharged on July 25, 1957.

The JTAC Subcommittees on the Study of Forward Scatter Propagation, Ionospheric Scatter and Tropospheric Transmission (55. 1) are nearing the completion of their work assignments and final reports are expected shortly.

The JTAC Subcommittee on Study of Interference from Arc Welders (54. 2) was disbanded in January 1957. The Federal Communications Commission recently requested a progress report of the current status of the RF Arc Welding Industry. A review reveals that the Joint Industry Commission (NEMA) is filing a Petition with the FCC, recommending that the PROPOSED RULE MAKING ON HIGH FREQUENCY ARC WELDERS be made permanent, due to an appreciable reduction in the number of interference cases reported to the Commission. As soon as JTAC receives a copy of the Petition a summary of JTAC's activities will be submitted to the Commission.

The JTAC Subcommittee on Study of Single Sideband Transmission (56. 1) completed a resume, (Single Sideband Analysis) and was discharged on January 16, 1958.

THE INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC)

The International Electrotechnical Commission Subcommittee 12-1 on Measurements met in Paris, France from March 24 to 31, 1958. IRE secured the services of a delegate to represent the United States, and the IRE Technical Committees prepared this delegate on all items to be discussed at this meeting.

The annual meeting of the International Electrotechnical Commission was held in Copenhagen, Denmark July 1 to 4, and in Vasteras and Ludvika, Sweden July 1 to 5, 1958. IRE did not actively participate in these meetings, since there were no meetings of IEC Technical Committee 12 on Radio Communication, or Technical Subcommittee 12-1 on Measurements scheduled at this time.

A list of all documents and material received in the Office of the IRE Technical Secretary from the IEC was distributed to the Chairmen of all Professional Groups, Technical Committees and Subcommittees.

PROFESSIONAL GROUP SYSTEM

GENERAL There are currently 28 Professional Groups operating actively within the IRE.

Approximately 60% of all IRE members have taken advantage of the Professional Group System which now has a total membership of over 72,000. Included are 5408 Student members of the IRE who have joined the Groups at the special Student member rate of \$1.00 annually. Under the newly instituted Affiliate Plan, 279 scientists and medical doctors, whose major interests lie in fields other than electronics, have affiliated with a number of the Professional Groups.

All of the Groups have levied publications fees and their members 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. There is also a demand for individual Group subscriptions and individual copies of the TRANSACTIONS from outside sources.

Financial and editorial assistance were among the many services rendered by Headquarters to the Groups during 1958. The Office of the Technical Secretary provided administrative services for Group operations, the planning of meetings, advance publicity and the recording and mailing for all activities, including 882 mailings to Group members during the year.

SYMPOSIA The procurement of papers and actual management of national symposia are entirely in the hands of the Professional Groups. Each of the Groups, with the exception of G-28, sponsored one or more technical meetings during this year, in addition to Technical Sessions at the IRE National Convention, the WES-CON, The National Electronics Conference and other joint meetings, for a total of 47 meetings of national import in 1958 (see list attached).

PUBLICATIONS During the year, 25 Groups published 81 TRANSACTIONS containing 5,388 pages. Since publication began in 1951, 392 issues (26,092 pages) have appeared. Full details on Group TRANSACTIONS are included in the Report of the Editorial Department.

PROFESSIONAL GROUP CHAPTERS 242 Professional Group Chapters have been organized by Group members in 54 IRE Sections (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 in the various Sections.

- | | |
|-----------------|-------------------|
| Chicago | San Antonio |
| Cincinnati | San Diego |
| Cleveland | San Francisco |
| Dayton | Syracuse |
| Hawaii | Washington, D. C. |
| Houston | |
| Akron | Fla. West Coast |
| Baltimore | Long Island |
| Boston | Los Angeles |
| Jr. Dallas | Philadelphia |
| Ft. Worth | Twin Cities |
| Chicago | Los Angeles |
| Boston | Philadelphia |
| Chicago | Pittsburgh |
| Cleveland | San Francisco |
| Fla. West Coast | Twin Cities |
| Houston | Vancouver |
| Omaha-Lincoln | Washington, D. C. |
| Albuquerque | Philadelphia |
| Boston | Quebec |
| Chicago | San Antonio |
| Houston | Seattle |
| Los Angeles | Syracuse |
| Omaha-Lincoln | Tucson |

Professional Group Chapters
Established as of December 31, 1958

Group Code No.	<u>Name of Group</u>	<u>No. of Chapters</u>	<u>Section Location</u>	
G-11	Aeronautical and Navigational Electronics	10	Akron Baltimore Boston Dayton Fla. West Coast	Jt. N. Y. , No.N.J. & L.I. Kansas City Oklahoma City Philadelphia St. Louis
G-3	Antennas & Propagation	13	Akron Albuquerque Boston Chicago Dayton Denver Los Angeles	Orange Belt (L. A.) Philadelphia San Diego San Francisco Syracuse Washington, D. C.
G-1	Audio	17	Albuquerque Baltimore Boston Chicago Cincinnati Cleveland Dayton Hawaii Houston	Milwaukee Philadelphia Phoenix San Antonio San Diego San Francisco Syracuse Washington, D. C.
G-23	Automatic Control	9	Akron Baltimore Boston Jt. Dallas- Ft. Worth	Fla. West Coast Long Island Los Angeles Philadelphia Twin Cities
G-8	Broadcast and Television Receivers	2	Chicago	Los Angeles
G-2	Broadcasting	12	Boston Chicago Cleveland Fla. West Coast Houston Omaha-Lincoln	Philadelphia Pittsburgh San Francisco Twin Cities Vancouver Washington, D. C.
G-4	Circuit Theory	12	Albuquerque Boston Chicago Houston Los Angeles Omaha-Lincoln	Philadelphia Quebec San Antonio Seattle Syracuse Tucson

Professional Group Chapters
Established as of December 31, 1958
(Continued)

<u>Group Code No.</u>	<u>Name of Group</u>	<u>No. of Chapters</u>	<u>Section Location</u>	
G-19	Communications Systems	12	Baltimore Chicago Fla. West Coast Hawaii Los Angeles Oklahoma City	Omaha-Lincoln Jt. with V.C. Philadelphia Rome-Utica San Francisco Syracuse Washington, D. C.
G-21	Component Parts	8	Baltimore Buffalo-Niagara Chicago Dayton	Los Angeles Jt. N. Y., No. N. J. & L.I. Philadelphia Washington, D. C.
G-15	Electron Devices	9	Boston Elmira-Corning Emporium, Pa. Los Angeles Jt. N. Y., No. N. J. & L. I.	Philadelphia San Francisco Schenectady Washington, D. C.
G-16	Electronic Computers	17	Akron Baltimore Binghamton Boston Chicago Dallas Dayton Detroit Houston	Los Angeles Montreal New York Philadelphia Pittsburgh San Francisco Twin Cities Washington, D. C.
G-14	Engineering Management	11	Boston Chicago Dayton Los Angeles Jt. N. Y., No. N. J. & L. I.	Philadelphia Rome-Utica San Francisco Syracuse Twin Cities Washington, D. C.
G-26	Engineering Writing & Speech	5	Boston Chicago Los Angeles	San Francisco Washington, D. C.
G-13	Industrial Electronics	3	Chicago Omaha-Lincoln	Schenectady
G-12	Information Theory	4	Boston Los Angeles Washington, D. C.	White Sands Proving Grounds(El Paso)

Professional Group Chapters
Established as of December 31, 1958

(Continued)

<u>Group Code No.</u>	<u>Name of Group</u>	<u>No. of Chapters</u>	<u>Section Location</u>	
G-9	Instrumentation	7	Atlanta Chicago Fla. West Coast Houston	Long Island St. Louis Washington, D. C.
G-18	Medical Electronics	14	Baltimore Boston Buffalo Chicago Columbus Houston Los Angeles Montreal	Jt. N. Y., No. N. J., L. I. & Princeton Omaha-Lincoln Philadelphia San Diego San Francisco Washington, D. C.
G-17	Microwave Theory and Techniques	18	Albuquerque Baltimore Boston Buffalo Chicago Denver Long Island Los Angeles No. New Jersey	New York Omaha-Lincoln Philadelphia San Diego San Francisco Schenectady Syracuse Tokyo Washington, D. C.
G-24	Military Electronics	17	Boston Buffalo-Niagara Central Florida Chicago Dayton Fort Wayne Long Island Los Angeles North Carolina	Northwest Florida Philadelphia Rome-Utica San Diego San Francisco Syracuse Tucson Washington, D. C.
G-5	Nuclear Science	9	Albuquerque Boston Chicago Conn. Valley Dayton	Los Alamos Oak Ridge, Tenn. (Atlanta Sec.) Pittsburgh Washington, D. C.
G-22	Production Techniques	5	Boston Los Angeles Jt. N. Y., No. N. J. & L. I.	San Francisco Washington, D. C.
G-27	Radio Frequency Interference	1	Ft. Worth	

Professional Group Chapters
Established as of December 31, 1958
(Continued)

Group Code No.	Name of Group	No. of Chapters	Section Location	
G-7	Reliability and Quality Control	6	Chicago Fla. West Coast Los Angeles	Philadelphia San Francisco Washington, D. C.
G-10	Space Electronics and Telemetry	9	Albuquerque Central Florida Chicago Dayton Detroit	Los Angeles Philadelphia San Francisco Washington, D. C.
G-6	Vehicular Communications	12	Baltimore Chicago Dallas Detroit Fla. West Coast Houston Los Angeles	Jt. N. Y., No. N. J. & L. I. Omaha-Lincoln Jt. with C. S. Philadelphia Twin Cities Washington, D. C.

25 Groups	242 Chapters	54 Sections		
			New York	March 24-27
			Newark, Del.	April 2-4
			New York, N. Y.	April 8-10
			San Antonio, Texas	April 10-12
			Detroit, Mich.	April 14-15
			Cincinnati, Ohio	April 18-19
			Los Angeles, Calif.	April 22-24
			Washington, D. C.	April 24-26
			Sacramento, Calif.	April 30 - May 1-2

National Technical Meetings, 1958

<u>Name of Meeting</u>	<u>Sponsoring Groups</u>	<u>Place</u>	<u>Date</u>
4th Nat'l Symp. on Reliability and Quality Control	PGRQC; ASQC; EIA; AIEE	Washington, D. C.	January 6-8
Conf. on Methodology & Problems in Artificial Internal Organs	PGME; Rockefeller Inst.; SAIO	New York, N. Y.	January 15
Scintillation Counter Symp.	PGNS; AIEE; AEC; NBS	Washington, D. C.	January 27-28
Electronics in Aviation Day	PGANE; IAS; RTCA; ION	New York, N. Y.	January 29
5th Annual Cleveland Electronics Conf.	IRE; AIEE; ISA; CPS	Cleveland, Ohio	February 14-15
Transistor & Solid State Circuits Conf.	Phila. Sect. PGCT; AIEE; Univ. of Penn.	Philadelphia, Pa.	February 20-21
IRE National Convention	All P. G. 's	New York, N. Y.	March 24-27
Conf. on Automatic Optimization	PGAC; ASME; ISA; AICHE	Newark, Del.	April 2-4
Electronic Wave Guides Symp.	PGED; PGMT&T; PIB	New York, N. Y.	April 8-10
S. W. IRE Regional Conf. & Elec. Show	6 Sections in Region 6	San Antonio, Texas	April 10-12
Conf. on Automatic Techniques	IRE; PGIE; PGAC; ASME; PGPT; AIEE	Detroit, Mich.	April 14-16
Spring Tech. Conf. on TV & Transistors	Cinn. Sect. PGBTR; PGBTS	Cincinnati, Ohio	April 18-19
Electronic Components Symp.	PGCP; AIEE; EIA; WCEMA	Los Angeles, Calif.	April 22-24
URSI Spring Meeting	PGAP; PGMT&T; PGCT; PGI; URSI	Washington, D. C.	April 24-26
7th Region Tech. Conf. & Trade Show	7th Region	Sacramento, Calif.	April 30 - May 1-2

National Technical Meetings, 1958

(Continued)

<u>Name of Meeting</u>	<u>Sponsoring Groups</u>	<u>Place</u>	<u>Date</u>
PGMT&T National Symp.	PGMT&T	Stanford, Calif.	May 5-7
Western Joint Computer Conference	PGEC; AIEE; ACM	Los Angeles, Calif.	May 6-8
Nat'l Aeronautical Electronics Conf.	Dayton Sec. IAS; PGANE	Dayton, Ohio	May 12-14
Symp. on Recent Developments in Res. Methods & Inst.	PGME; ACS; ISA; SAB; AACC; SEBM	Washington, D. C.	May 13-15
2nd Nat'l Symp. on Production Tech.	PGPT	New York, N. Y.	June 5-6
2nd Nat'l Conv. on Military Electronics	PGMIL	Washington, D. C.	June 16-18
Special Tech. Conf. on Non-Linear Mag. & Mag. Amplifiers	PGIE; AIEE	Los Angeles, Calif.	August 6-8
Electronic Standards & Meas. Conf.	PGI; AIEE; NBS	Boulder, Colo.	August 13-15
WESCON	L. A. & S. F. Sects.; WCEMA; All PG's	Los Angeles, Calif.	August 19-22
Nat'l Symp. on Telemetering	PGTRC	Miami Beach, Fla.	September 22-24
Industrial Elec. Conf.	PGIE; AIEE	Detroit, Mich.	September 24-25
4th Conf. on Radio Interference Reduction	Armour Res. Found.; PGRFI; USA Signal Res. & Dev. Labs.	Chicago, Ill.	October 1-2
Engineering Writing & Speech Symp.	PGEWS	New York, N. Y.	October 1-2
Symp. on Extended Range & Space Comm.	PGAP; PGCS; Geo. Wash. Univ.	Washington, D. C.	October 6-7
IRE Canadian Conv.	Region 8; PGVC	Toronto, Canada	October 8-10
National Electronics Conf.	IRE; AIEE; EIA	Chicago, Ill.	October 13-15

National Technical Meetings, 1958
(Continued)

<u>Name of Meeting</u>	<u>Sponsoring Groups</u>	<u>Place</u>	<u>Date</u>
4th Annual Symp. on Aeronautical Comm.	Rome-Utica Sect.; PGCS	Utica, N. Y.	October 20-22
URSI Fall Meeting	URSI; PGAP; IT	University Park, Pa.	October 21-22
Nat'l Simulation Conf.	Dallas Section; PGEC	Dallas, Texas	October 23-25
Radio Fall Meeting	PGED; PGRQC; PGBTR; EIA	Rochester, N. Y.	October 27-29
East Coast Aero. & Nav. Elec. Conf.	Baltimore Sect. PGANE	Baltimore, Md.	October 27-28
1958 Electron Devices Meeting	PGED	Washington, D. C.	October 30-31 - November 1
PGNS 5th Annual Meeting	PGNS	San Mateo, Calif.	November 6-7
IRE Region 3 Conv.	Region 3	Atlanta, Ga.	November 17-19
Conf. on Mag. & Mag. Materials	AIEE; APS; AIME; ONR; PGMTT	Philadelphia, Pa.	November 17-20
N. E. Research & Eng. Mtg. (NEREM)	Region 1	Boston, Mass.	November 19-20
11th Annual Conf. on Elec. Tech. in Med. & Biology	PGME; AIEE; ISA	Minneapolis, Minn.	November 19-20
56th Meeting Acoustical Soc. of America	Acoustical Society; PGA	Chicago, Ill.	November 20-22
Eastern Joint Computer Conference	PGEC; AIEE; ACM	Philadelphia, Pa.	December 3-5
2nd Nat'l Symp. on Global Communications	PGCS; AIEE	St. Petersburg Beach, Fla.	December 3-5
PGVC Annual Meeting	PGVC	Chicago, Ill.	December 4-5
Mid-America Elect. Convention	Kansas City Section	Kansas City, Mo.	December 9-11

Table XXVII - Section Activities

We were glad to welcome six new Sections into the IRE during the past year. They are as follows:

- | | | |
|----|---|----------------|
| 1. | Anchorage | September 1958 |
| 2. | Colombia | January 1958 |
| 3. | Erie (formerly Subsection) | January 1958 |
| 4. | Quebec (formerly Subsection) | September 1958 |
| 5. | South Carolina (formerly Charleston Subsection) | May 1958 |
| 6. | Western Michigan | January 1958 |

The total number of Sections is now 100. Reference to Table XXVIII will show Section Membership statistics for the years 1957 and 1958, as well as meetings held in all Sections for the same period.

The Charleston, Erie and Quebec Subsections became full Sections in the year 1958.

The Subsections of Sections now total 28, the following being formed in 1958:

- | | | |
|----|--------------------------------|----------------|
| 1. | Fairfield County (Connecticut) | September 1958 |
| 2. | Merrimack Valley (Boston) | September 1958 |
| 3. | Santa Ana (Los Angeles) | January 1958 |

Table XXVIII - Section and Subsection Meetings and Membership - 1957, 1958

Reg.	Section	MEETINGS**						MEMBERSHIP			
		1957			1958			1957		1958	
		Section	PG	Total	Section	PG	Total	Sub.- Section	Section Total	Sub.- Section	Section Total
1	Binghamton	10	0	10	9	4	13		326		410
	Boston	8	53	73	4	48	66	4,210			4,640
*	Merrimack Valley S.	-	-	-	2	-	-			347	
	New Hampshire S.	4	-	-	3	-	-	183		164	
	No. Vermont S.	8	-	-	9	-	-	43		52	
	Buffalo-Niagara	9	7	16	8	0	8		436		405
	Connecticut	9	5	14	3	3	6		924		971
*	Fairfield County S.	-	-	-	-	-	-			374	
	Elmira-Corning	10	0	10	8	0	8		140		132
*	Erie	-	-	-	-	-	-				69
	Ithaca	7	0	7	10	0	10		160		150
	Rochester	7	0	7	4	0	4		428		462
	Rome-Utica	6	4	10	4	3	7		409		473
	Schenectady	3	0	3	2	0	2		405		426
	Syracuse	8	15	23	3	18	21		819		914
	Western Mass.	1	0	1	8	0	8		226		264
		90	84	174	77	76	153	8,483			9,316
2	Long Island	21	10	31	19	14	33	3,527			3,730
	New York	10	28	65	6	25	43	4,643			4,703
	Mid-Hudson S.	11	-	-	4	-	-	643		551	
	Monmouth S.	8	-	-	6	-	-	510		545	
	Westchester S.	8	-	-	2	-	-	596		657	
	Northern New Jersey	7	7	14	7	4	11	3,206			3,436
	Princeton	9	0	9	8	0	8	559			609
		74	45	119	52	43	95	11,935			12,478
3	Atlanta	20	0	20	15	0	15	760			621
	Baltimore	10	10	20	12	18	30	1,198			1,222
	Central Florida	10	3	16	9	4	20	696			906
	Gainesville S.	3	-	-	7	-	-	177		202	
	Florida West Coast	10	8	18	10	21	31	242			318
	Huntsville	8	0	14	10	0	17	413			506
	Memphis S.	1	-	-	0	-	-	49		41	
	Nashville S.	5	-	-	7	-	-	96		129	
	Miami	9	0	9	4	0	4	263			272
	North Carolina	9	0	20	10	0	21	443			514
	East. No. Carolina S.	3	-	-	5	-	-	153		160	
	W. No. Carolina S.	8	-	-	6	-	-	65		64	
	Northwest Florida	10	5	20	10	4	19	139			143
	Panama City S.	5	-	-	5	-	-	38		42	
	Philadelphia	19	54	87	8	58	79	3,479			3,797
	Lancaster S.	7	-	-	5	-	-	225		269	
	Lehigh Valley S.	7	-	-	8	-	-	141		176	
*	South Carolina	0	0	0	4	-	4				234
	Virginia	8	0	8	7	0	7	407			466
	Washington	9	73	82	10	68	78	2,743			3,010
		161	153	314	152	173	325	10,783			12,009

Table XXVIII - Section and Subsection Meetings and Membership - 1957, 1958
(Continued)

Reg.	Section	MEETINGS**						MEMBERSHIP			
		1957			1958			1957		1958	
		Section	PG	Total	Section	PG	Total	Sub.- Section	Total	Sub.- Section	Total
	Akron	10	9	19	10	8	18		284		297
	Central Penn.	7	0	7	6	0	6		215		235
	Cincinnati	5	2	7	6	3	9		393		420
	Cleveland	9	2	11	10	4	14		490		512
	Columbus	8	0	8	14	0	14		254		349
	Dayton	8	32	42	7	18	26		714		777
	USAFIT S.	2	-	-	1	-	-	58		54	
	Detroit	9	7	16	10	10	20		1,062		1,094
	Emporium	12	0	12	12	0	12		125		131
	Pittsburgh	8	6	14	8	6	14		664		679
	Toledo	11	0	11	9	0	9		165		158
*	Western Michigan	0	0	0	11	0	11				115
	Williamsport	0	0	0	4	0	4		50		54
		89	58	147	108	49	157		4,416		4,821
5	Cedar Rapids	10	0	10	10	0	13		623		633
	Burlington S.	-	-	-	3	-	-	25		22	
	Chicago	9	24	33	6	27	33		2,684		2,709
	Evansville-Owensboro	10	0	10	10	0	10		124		133
	Fort Wayne	8	5	13	10	3	13		236		226
	Indianapolis	4	0	4	8	0	8		440		513
	Louisville	6	0	6	2	0	2		159		167
	Milwaukee	7	4	11	9	3	12		713		788
	Omaha-Lincoln	9	1	10	9	10	19		212		246
	So. Bend-Mishawaka	10	0	10	8	0	8		199		236
	Twin Cities	10	1	11	8	3	11		871		881
		83	35	118	83	46	129		6,261		6,532
6	Beaumont-Pt. Arthur	10	0	10	10	0	10		109		106
	Dallas	10	0	10	10	3	13		690		882
	Denver	8	3	11	9	1	10		511		614
	El Paso	9	0	14	1	0	8		183		196
	Las Cruces- White Sands S.	5	-	-	7	-	-	79		73	
	Fort Worth	10	1	11	13	0	13		306		363
	Houston	11	6	17	10	6	16		517		540
	Kansas City	10	0	10	9	0	9		623		605
	Little Rock	10	0	10	4	0	4		127		135
	Lubbock	9	0	9	7	0	7		94		96
	New Orleans	3	0	3	5	0	5		237		259
	Oklahoma City	10	0	10	9	2	11		261		293
	St. Louis	4	0	4	7	0	7		627		707
	San Antonio-Austin	7	1	8	14	1	15		284		352
	Shreveport	8	0	8	10	0	10		69		75
	Tulsa	7	0	7	8	0	8		263		291
	Wichita	8	0	8	9	0	9		128		101
		139	11	150	142	13	155		5,029		5,615

Table XXVIII - Section and Subsection Meetings and Membership - 1957, 1958
(Continued)

Section	MEETINGS**						MEMBERSHIP			
	1957			1958			1957		1958	
	Section	PG	Total	Section	PG	Total	Sub.- Section	Total	Sub.- Section	Total
Alamogordo-Holloman	8	0	8	11	0	11		96		108
Albuquerque-Los Alamos	11	29	40	7	23	30		543		586
Anchorage	-	-	-	5	-	5				100
China Lake	10	0	10	7	0	7		95		103
Fort Huachuca	11	0	11	7	0	7		84		93
Hawaii	8	0	8	8	0	8		90		99
Los Angeles	9	82	129	7	91	137		5,999		6,740
Buenaventura S.	7	-	-	7	-	-	98		122	
Orange Belt S.	5	6	-	8	-	-	448		504	
Pasadena S.	7	-	-	7	-	-	566		590	
San Fernando S.	9	-	-	7	-	-	817		1,092	
Santa Ana S.	-	-	-	2	-	-			777	
Santa Barbara S.	4	-	-	8	-	-	269		305	
Phoenix	10	0	10	10	0	10		447		536
Portland	15	0	15	11	0	11		294		327
Sacramento	8	0	8	8	0	8		172		190
Salt Lake City	6	0	6	5	0	5		299		335
San Diego	10	3	13	12	2	14		660		800
San Francisco	10	38	55	8	41	55		2,763		3,305
East Bay S.	5	-	-	3	-	-	524		557	
Palo Alto S.	2	-	-	3	-	-	1,628		2,071	
Seattle	10	5	20	7	0	13		790		959
Richland S.	5	-	-	6	-	-	115		98	
Tucson	9	1	10	7	1	8		90		246
	179	164	343	171	158	329		12,422		14,527
Bay of Quinte	7	0	7	7	0	7		86		111
Hamilton	10	0	13	8	0	14		171		197
Kitchener-Waterloo S.	3	-	-	6	-	-	64		73	
London	5	0	5	7	0	7		107		123
Montreal	19	7	26	9	0	9		660		611
Newfoundland	7	0	7	9	0	9		42		48
Northern Alberta	9	0	9	8	0	8		96		138
Ottawa	8	0	8	9	0	9		286		353
Quebec	-	-	-	3	1	4				123
Regina	8	0	8	9	0	9		66		79
Southern Alberta	7	0	7	0	0	0		65		146
Toronto	12	0	12	9	0	9		686		727
Vancouver	10	0	10	7	0	7		209		250
Winnipeg	10	0	10	11	0	11		114		151
	115	7	122	102	1	103		2,588		3,057

Table XXVIII - Section and Subsection Meetings and Membership - 1957, 1958
(Continued)

Reg.	Section	MEETINGS**						MEMBERSHIP			
		1957			1958			1957		1958	
		Section	PG	Total	Section	PG	Total	Sub.- Section	Section Total	Sub.- Section	Section Total
	Buenos Aires	8	0	8	15	0	15		112		117
*	Colombia	0	0	0	5	-	5				30
	Egypt	6	-	6	5	0	5		22		26
	Israel	5	0	5	3	0	3		59		67
	Rio de Janeiro	8	0	8	3	0	3		45		47
	Tokyo	10	0	10	6	0	6		204		274
		37	0	37	37	0	37		442		561
	Totals	967	557	1,524	924	559	1,483		62,359		68,916

* Established during 1958

** As reported to IRE Headquarters 1/12/59

RECAPITULATION

1957

Region	1	2	3	4	5	6	7	8	Foreign	Totals
Sections	11	4	11	11	10	16	14	12	5	94
Subsections	3	3	9	1	1	1	8	2	-	28
Membership	8,483	11,935	10,783	4,416	6,261	5,029	12,422	2,588	442	62,359
Section Meetings	90	74	161	89	83	139	179	115	37	967
PG Meetings	84	45	153	58	35	11	164	7	0	557
Total Meetings	174	119	314	147	118	150	343	122	37	1,524

1958

Region	1	2	3	4	5	6	7	8	Foreign	Totals
Sections	12	4	12	12	10	16	15	13	6	100
Subsections	4	3	8	1	1	1	9	1	-	28
Membership	9,316	12,478	12,009	4,821	6,532	5,615	14,527	3,057	561	68,916
Section Meetings	77	52	152	108	83	142	171	102	37	924
PG Meetings	76	43	173	49	46	13	158	1	0	559
Total Meetings	153	95	325	157	129	155	329	103	37	1,483

(Continued)

Table XXIX - Professional Group Chapter Meetings, by Section, by Group - 1957, 1958 *

SECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Total	
Williams- port	1958																													
	1957																													
Winnipeg	1958																													
	1957																													
		77	28	53	41	47	54	29	14	28	56	25	24	4	73	59	127	101	53	39	0	49	29	33	64	0	9	0	0	1,116

* As reported to IRE Headquarters 1/12/59

- a - Two separate G-5 Chapters
- b - Joint with Northern New Jersey, Long Island and Princeton
- c - Joint with Northern New Jersey and Long Island
- d - Chapter dissolved in 1958

Akron
 Albuquerque-Los Alamos
 Alamo-Gordo-Holloman
 Baltimore
 Beaumont-Port Arthur
 Boston
 Buenaventura Subsection
 (Los Angeles)
 Cedar Rapids
 Central Florida
 Central Pennsylvania
 Chicago
 Cleveland
 Connecticut
 Dallas
 Dayton
 Denver
 Detroit
 El Paso
 Emporium
 Evansville-Owensboro
 Florida West Coast
 Houston
 Huntsville
 Kansas City
 Long Island
 Los Angeles
 Miami
 Monmouth Subsection
 (New York)
 New York
 North Carolina
 Northern New Jersey
 Northern Vermont Subsection
 (Boston)
 Oklahoma City
 Omaha-Lincoln
 Ottawa
 Philadelphia

Table XXX - Section and Subsection Publications, 1958

A growing major activity of many Sections and the larger Subsections in recent years is the publication of a local monthly Bulletin to fulfil the need for announcing to the Section member the increasing activities of the Section, including (1) Section Meetings (2) Professional Group Chapter Meetings and (3) Information on the local and national level of interest to the Section member.

Forty-nine of the Sections and Subsections now issuing these monthly publications are listed below:

Akron	"Bulletin"
Albuquerque-Los Alamos	"The Blast"
Alamogordo-Holloman	"The Missile"
Baltimore	"The Speaker"
Beaumont-Port Arthur	"The Scatter"
Boston	"The Reflector"
Buenaventura Subsection (Los Angeles)	"The Bulletin"
Cedar Rapids	"Meeting Notice"
Central Florida	"Indian River Engineer"
Central Pennsylvania	"Newsletter"
Chicago	"Scanfax"
Cleveland	"Cleveland Section News"
Connecticut	"The Connector"
Dallas	"Direction"
Dayton	"Wave Guide"
Denver	"The Denver Decibel"
Detroit	"Cross Talk"
El Paso	"El Paso Electronics"
Emporium	"Newsletter"
Evansville-Owensboro	"The Transitter"
Florida West Coast	"Bulletin"
Houston	"Scope"
Huntsville	"The Live Wire"
Kansas City	"The Local Oscillator"
Long Island	"The Pulse"
Los Angeles	"The Bulletin"
	"The Mid-Month Bulletin"
Miami	(No Name)
Monmouth Subsection (New York)	"The Scanner"
New York	"The Monitor"
North Carolina	"Bulletin"
Northern New Jersey	"IRE Newsletter"
Northern Vermont Subsection (Boston)	"The Viren"
Oklahoma City	"Sooner Satellite"
Omaha-Lincoln	"Om-Linc Coupling"
Ottawa	(No Name)
Philadelphia	"Almanack"

Table XXX - Section and Subsection Publications, 1958 (Cont'd.)

Pittsburgh	"Bulletin"
Princeton	"P.S."
Rome-Utica	"IRE Echoes"
St. Louis	"The Mighty Mho"
San Antonio-Austin	"The Analog"
San Diego	"Bulletin"
San Francisco	"The Grid"
Schenectady	"IRE Bulletin"
Seattle	"DataLink"
Syracuse	"Scanner"
Tucson	"The Wire"
Twin Cities	"The Radiator"
Washington	"Bulletin"

Formed 1953

11/17/58

6/26/58

2/4/58

6/26/58

Table XXXI - Student Branches, 1958

The number of Student Branches formed during 1958 was 17. The total number of Student Branches is now 168, 115 of which operate as joint IRE-AIEE Branches, and 9 as Student Associate Branches.

Following is a list of the Student Branches:

<u>School</u>	<u>Branch</u>	<u>Formed 1958</u>
* Academy of Aeronautics	IRE	11/17/58
Agricultural and Mechanical College of Texas	IRE-AIEE	
Akron, University of	IRE-AIEE	
Alabama, University of	IRE-AIEE	
Alabama Polytechnic Institute	IRE	
Alberta, University of	IRE-AIEE	
Arizona State University	IRE	
Arizona, University of	IRE-AIEE	
Arkansas, University of	IRE-AIEE	
Bradley University	IRE	
Brigham Young University	IRE	6/26/58
British Columbia, University of	IRE-AIEE	
Brooklyn, Polytechnic Institute of	IRE-AIEE (Day Div.)	
Brooklyn, Polytechnic Institute of	IRE-AIEE (Eve. Div.)	
* Broome Technical Community College	IRE	2/4/58
Brown University	IRE-AIEE	
Bucknell University	IRE-AIEE	
California Institute of Technology	IRE-AIEE	
California State Polytechnic College	IRE	
California State Polytechnic College (Kellogg-Voorhis Campus)	IRE	6/26/58
California, University of	IRE-AIEE	

Table XXXI - Student Branches, 1958 (Cont'd.)

<u>School</u>	<u>Branch</u>	<u>Formed 1958</u>
* Capitol Radio Engineering Institute	IRE	5/2/58
Carnegie Institute of Technology	IRE-AIEE	
Case Institute of Technology	IRE-AIEE	
Catholic University of America	IRE-AIEE	6/26/58
* Central Technical Institute	IRE	
Cincinnati, University of	IRE-AIEE	
Clarkson College of Technology	IRE-AIEE	
Clemson College	IRE-AIEE	
Colorado, University of	IRE-AIEE	
Colorado State University	IRE-AIEE	
Columbia University	IRE-AIEE	
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	
Fairleigh Dickinson University	IRE	
Fenn College	IRE	
Florida, University of	IRE-AIEE	
George Washington University	IRE-AIEE	
Georgia Institute of Technology	IRE	
Hofstra College	IRE	
Houston, University of (College of Engineering)	IRE	6/26/58

Table XXXI - Student Branches, 1958 (Cont'd.)

<u>School</u>	<u>Branch</u>	<u>Formed 1958</u>
* Houston University (College of Technology)	IRE	4/7/58
Howard University	IRE-AIEE	
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	
Lamar State College	IRE	
Laval University	IRE-AIEE	
Lehigh University	IRE-AIEE	
Los Angeles State College of Applied Arts and Sciences	IRE	10/21/58
Louisiana Polytechnic Institute	IRE-AIEE	
Louisiana State University	IRE-AIEE	
Louisville, University of	IRE-AIEE	
Lowell Technological Institute	IRE (Day Div.)	12/8/58
Loyola University of Los Angeles	IRE (Sve. Div.)	3/4/58
Maine, University of	IRE	
Manhattan College	IRE-AIEE	
Marquette University	IRE-AIEE	
Maryland, University of	IRE-AIEE	

Table XXXI - Student Branches, 1958 (Cont'd.)

<u>School</u>	<u>Branch</u>	<u>Formed 1958</u>
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	
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	IRE (Day Div.)	
New York University	IRE-AIEE (Eve. Div.)	
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, 1958 (Cont'd.)

<u>School</u>	<u>Branch</u>	<u>Formed 1958</u>
Northwestern University	IRE-AIEE	
Norwich University	IRE-AIEE	
Notre Dame, University of	IRE-AIEE	
Ohio Northern University	IRE-AIEE	
Ohio State University	IRE-AIEE	
Ohio University	IRE-AIEE	
Oklahoma, University of	IRE-AIEE	
Oklahoma State University	IRE-AIEE	
Oregon State College	IRE	
* Oregon Technical Institute	IRE	3/4/58
Ottawa University	IRE	4/7/58
Pennsylvania, University of	IRE-AIEE	
Pennsylvania State University, The	IRE-AIEE	
Pittsburgh, University of	IRE	
Pratt Institute	IRE-AIEE	
Princeton University	IRE-AIEE	
* Provincial Institute of Technology and Art	IRE	5/2/58
Purdue University	IRE-AIEE	
Rensselaer Polytechnic Institute	IRE-AIEE	
Rhode Island, University of	IRE-AIEE	
Rice Institute	IRE-AIEE	
Rose Polytechnic Institute	IRE-AIEE	
Rutgers University	IRE-AIEE	
* Ryerson Institute of Technology	IRE	
St. Louis University	IRE	

Table XXXI - Student Branches, 1958 (Cont'd.)

<u>School</u>	<u>Branch</u>	<u>Formed 1958</u>
San Diego State College	IRE	
San Jose State College	IRE	
Santa Clara, University of	IRE-AIEE	
Saskatchewan, University of	IRE	
Seattle University	IRE	
South Carolina, University of	IRE-AIEE	
South Dakota School of Mines and Technology	IRE	
South Dakota State College	IRE-AIEE	
Southern California, University of	IRE-AIEE	
Southern Methodist University	IRE-AIEE	
Southwestern Louisiana Institute	IRE	
Stanford University	IRE-AIEE	
Stevens Institute of Technology	IRE-AIEE	
Swarthmore College	IRE-AIEE	
Syracuse University	IRE-AIEE	
Tennessee Agricultural and Industrial State University	IRE	4/7/58
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	4/7/58
Tufts University	IRE-AIEE	
Tulane University	IRE-AIEE	

Table XXXI - Student Branches, 1958 (Cont'd.)

<u>School</u>	<u>Branch</u>	<u>Formed 1958</u>
Union College (Schenectady)	IRE-AIEE	
U. S. Naval Postgraduate School	IRE	
Utah State University	IRE	
Utah, University of	IRE-AIEE	
Valparaiso University	IRE	
Vermont, University of	IRE-AIEE	
Vanderbilt University	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	
Washington, University of	IRE-AIEE	
Wayne University	IRE-AIEE	
* Wentworth Institute	IRE	
Western Ontario, University of	IRE	12/8/58
West Virginia University	IRE-AIEE	
Wichita, University of	IRE-AIEE	
Wisconsin, University of	IRE-AIEE	
Worcester Polytechnic Institute	IRE-AIEE	
Wyoming, University of	IRE-AIEE	
Yale University	IRE-AIEE	
Youngstown University	IRE-AIEE	4/7/58

* Student Associate Branches