

REPORT OF THE SECRETARY

1963

The Institute of Electrical and Electronics Engineers, Inc.
Box A, Lenox Hill Station, New York 21, New York

REPORT OF THE SECRETARY - 1963

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

Gentlemen:

Herewith is presented the Report of the Secretary for the year 1963, the first year of operations under the merger arrangement that created the IEEE.

Being a formative year in the attacking of problems incident to the merger, some solutions, such as the policy regarding publications, have been adopted and others are in progress but not finalized. In particular, the coordination of office operating routines and management organization have been difficult due to the quite different practices prevalent in the two former societies and some embarrassment both for members and for management, due to errors that were made in the struggle to achieve unification, ensued. However, by the close of the year, most of these difficulties came under control.

It should be mentioned that new pension and insurance programs were adopted and made effective during the year.

Growth and other statistics in the Report indicate that the new society is moving forward vigorously and that the problems of combination of old Sections into IEEE Sections have been worked out.

Respectfully submitted,

Haraden Pratt
Secretary

March 7, 1964

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
BOX A, LENOX HILL STATION, NEW YORK 21, NEW YORK

REPORT OF THE SECRETARY

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SECTION A

Table 1 - IEEE Membership by Grade, by Percentage, December 31, 1963

<u>Grade</u>	<u>Total</u>	<u>Percentage of Total</u>
Honorary (H)	5	
Fellow (F)	2,589	1.7
Senior Member (SM)	26,274	17.0
Member (M)	82,750	53.5
Associate (A)	14,215	9.2
Student (S)	28,676	18.6
Total	154,509	100.0

Table 2 - Geographical IEEE Membership Distribution, December 31, 1963

	<u>H</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>S</u>	<u>Total</u>	<u>Percentage</u>
Region 1	3	853	6,660	21,343	3,975	6,627	39,461	25.5
Region 2		512	5,201	14,512	2,157	3,650	26,032	16.9
Region 3		207	2,326	6,744	989	2,951	13,217	8.6
Region 4		254	2,978	8,557	1,475	4,803	18,067	11.7
Region 5	1	184	2,129	5,811	1,035	3,888	13,048	8.4
Region 6	1	380	4,755	18,653	2,760	4,037	30,586	19.8
Subtotal	5	2,390	24,049	75,620	12,391	25,956	140,411	90.9
U. S. Possessions		1	14	90	14	91	210	.1
U. S. Overseas Military		3	70	642	124	69	908	.6
Subtotal		4	84	732	138	160	1,118	.7
Region 7		71	907	3,021	775	1,609	6,383	4.1
Region 8		94	711	1,716	503	449	3,473	2.3
Region 9		30	523	1,661	408	502	3,124	2.0
Subtotal		195	2,141	6,398	1,686	2,560	12,980	8.4
Grand Total	5	2,589	26,274	82,750	14,215	28,676	154,509	100.0

Table 3 - IEEE Life Members, by Grade, December 31, 1963

<u>Grade</u>	<u>Contributors*</u>	<u>Noncontributors</u>	<u>Total</u>
Fellow	97	790	887
Senior Member	139	1,275	1,414
Member	79	707	786
Associate	<u>1</u>	<u>6</u>	<u>7</u>
Totals	316	2,778	3,094

* Contributors to Life Member Fund.

SECTION A

Table 4 - IEEE Membership Changes, by Grade, 1963

<u>GAINS</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>S</u>	<u>Total</u>
Elections	-	410	3,137	881	9,909	14,337
Reinstatements	11	296	1,680	242	395	2,624
Transfers to . . .	-	489	2,060	400	-	2,949*
Total Gain	11	1,195	6,877	1,523	10,304	19,910
 <u>LOSSES</u>						
Transfers from . . .	-	-	453	192	2,304	2,949*
Voided Elections	-	-	14	8	-	22
Deceased	53	221	216	38	15	543
Resignations	11	228	535	206	83	1,063
**Delinquents	13	1,580	10,320	2,617	7,422	20,952
Total Loss	77	2,029	11,538	3,061	9,824	25,529

** Includes members who have failed to pay dues since February 1, 1962.

* Analysis of Transfers, by Grade

<u>Transfers from</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>S</u>	<u>Total</u>
Transfers to F	-	-	-	-	-
Transfers to SM	-	453	36	-	489
Transfers to M	-	-	156	1,904	2,060
Transfers to A	-	-	-	400	400
Totals	-	453	192	2,304	2,949

FELLOWS

Aydelott, J. C.
 Barker, Harry
 Barnes, Howel H. Jr.
 Bear, Frederic T.
 Boyce, Frank G.
 Carter, Herbert G.
 Chesterman, Francis J.
 Cheyney, A. R.
 Clem, J. E.
 Condon, Earl S.
 Crowell, George F.
 Defendorf, Francis M.
 Dellinger, John H.
 Donnell, Philip S.
 Dow, James C.
 Drake, F. H.
 Eckersley, P. P.
 Elwell, Cyril F.
 Ewing, Dressel D.
 Fields, E. S.
 Gibbs, Harry P.
 Graff, Joseph W.
 Graham, William P.
 Gruehr, A. R.
 Grimsley, A. H.
 Haines, Thomas H.
 Halpenny, Robert H.
 Hardy, H. C.
 Harvey, Harold C.
 Hickernell, L. F.
 Lebenbau, Paul
 Levi, Gustav
 Magalhaes, Frank V.
 McLenagan, David W.
 Mossay, P. A.
 Noble, Paul O.
 O'Neill, George D.
 Osenbaugh, Chester L.
 Peck, John S.
 Raddin, E. H.
 Reid, C. R.
 Schamberger, Sanford O.
 Simon, Emil J.
 Sleeper, Harvey P.
 Snider, George E.
 Steinberg, Max J.
 Still, A.
 Summerhayes, H. R.
 Talbot, E. D.
 Taylor, Albert L.
 Terwilliger, C. V. O.
 Van Valkenburg, H. L.
 Whitman, Ezra B.

SENIOR MEMBERS

Appleby, Harry A.
 Askey, R. O.
 Aston, J. P.
 Bader, R. D.

Baldwin, H. D.
 Beattys, W. P. Jr.
 Bednarz, Frank J.
 Bell, G. A.
 Bent, E. D.
 Bernstein, P. P.
 Bird, Edward F.
 Bissell, C. H.
 Bissett, Eugene
 Blackledge, R. S.
 Blatt, Herman H.
 Bottis, Thomas N.
 Bowker, Winthrop H.
 Bowman, J. R.
 Bramley, Norman V.
 Branch, G. E.
 Branson, E. H.
 Britton, L. H.
 Brown, Stewart K.
 Burghard, George E.
 Burns, R. L.
 Byrnes, R. J.
 Callinan, Thomas D.
 Caraway, J. B.
 Cargill, Ralph E.
 Carlisle, Duane F.
 Carlson, E.
 Carter, William H. Jr.
 Cheney, Edward J.
 Clamer, Guillian H.
 Clapp, Glenn H.
 Clark, W. N.
 Cooley, M. Carlton
 Crafton, William L.
 Cross, Carl
 Danciu, Paul
 Davenport, J. C. Jr.
 Davis, C. H.
 Delany, Ralph
 Dingenthal, J.
 Dryden, Cyril L.
 Duffy, F. H.
 Duncan, J. A.
 Eash, Clarence D.
 Edelman, J. E.
 Egeberg, H.
 Erickson, E. E.
 Erlebach, G. B.
 Everett, Ralph R.
 Farley, William W. III
 Farnham, William E.
 Ferguson, B.
 Festner, R. H.
 Finkel, J.
 Flemister, Simon A.
 Forman, Robert E.
 Frei, C. G.
 Friar, E. M.
 Gamble, C. B.
 Ganser, H. H.
 George, William D.
 Gillon, V. C.
 Gilman, W. C.

Girdwood, A. J.
 Goldstone, Leonard O.
 Grayson, A. C.
 Hagy, Burtis E.
 Hahn, Edward Rock
 Haines, John J.
 Hall, Sherman M.
 Halvorson, C. A.
 Hanley, John F.
 Harrison, Paul W.
 Hayden, H. T. Jr.
 Henches, E. W.
 Herrmann, Raymond R.
 Hertner, John H.
 Higgings, D. D.
 Higgins, Don N.
 Higgins, Warren S.
 Hollister, V. L.
 Holst, Leif
 Howell, Walter J.
 Hyle, Samuel J.
 Ink, John B.
 Jackson, J. E.
 Jacobs, Albert M.
 Johnson, H. W.
 Jones, Oswald
 Josephs, Lyman C.
 Just, John S.
 Karker, Earl C.
 Kerlin, S. B.
 Kester, Harold J.
 Kietzman, William A.
 Kimes, R. A.
 Kingsbury, B. A.
 Kirkwood, McClean
 Koch, J. W.
 Larson, Alfred
 Lear, W. H.
 Lee, Charles F.
 LeVally, G. W.
 Libby, A. D. T.
 Lindstrom, T.
 Livingstone, T. A.
 Lockwood, E. H.
 Loftus, Peter F.
 Lopez, Ernesto F.
 Lowe, H. F.
 Lukey, J. G.
 MacDonald, C. J.
 Mack, M. C.
 Magee, John
 Mahan, Harwood E.
 Maione, Guido
 Markland, H. J.
 Marshall, J. A.
 Marshall, R. C. Jr.
 Marvin, Richard H.
 Mateer, R. B.
 Mayer, John H.
 McBain, Kerr
 McCall, C. C.
 McCulley, John A.
 McGuinness, Charles A.

Table 5 - Deceased Members - 1963 (continued)

SENIOR MEMBERS (continued)

McDaniel, O. S.
 McMurtrey, A. W. Jr.
 Merchant, E. F.
 Metzenheim, Henry H.
 Michell, R. G.
 Miller, L. S.
 Miller, R. C.
 Minton, M.
 Mitchell, J. G.
 Mixer, A. L.
 Molloy, G. P.
 Moody, A. F.
 Moss, Samuel A.
 Muirhead, William
 Murray, R. L.
 Nash, P. E.
 Neale, E. K.
 Netherwood, D. B.
 Newcomer, G. H.
 Nixon, George M.
 Northup, Russell P.
 Norton, H. A.
 Ohrn, Carl T.
 Okey, P.
 Oldham, C. A.
 Orcutt, D. P.
 Oser, W. K.
 Pace, Gordon
 Page, Roy
 Peirson, Garnet F.
 Percival, Harry S.
 Perry, R. H.
 Petch, H. S.
 Peterson, G. H.
 Petzing, William N.
 Pieksen, George W.
 Pizzorno, P. P.
 Podlesak, H. J.
 Porter, Harry F.
 Pree, Walter G.
 Pretty, Harvey R.
 Revercomb, H. E.
 Rice, B. S.
 Rigby, William H.
 Ringer, F. W.
 Robinson, R. R.
 Ronci, Victor L.
 Rowe, G. C. B.
 Saalberg, W. H.
 Salquist, Edwin A.
 Sargl, G.
 Sarley, Joe M.
 Sawin, George A.
 Schroeder, F. W. Sr.
 Schultz, F. J.
 Senecal, Theodore L.
 Shafer, W. L.
 Siegfried, Joseph H.
 Simpson, W. P.
 Skaglund, H. A.
 Skrotzki, Bernhardt,
 Smith, E. Dillon

Smith, Harry T.
 Smith, Wilbert B.
 Snyder, Henry W.
 Spracher, Patten R.
 Spurling, O. C.
 Spurling, W. E.
 Staller, A. W.
 Stauffer, L. M.
 Stewart, Duncan J.
 Stomski, William J.
 Strutyński, Josef
 Sutherland, George
 Taylor, Alfred M.
 Thomson, Malcolm
 Tomlinson, Henry R.
 Topuria, Z. V.
 Towle, N. L.
 Town, Frederic E.
 Vincent, H. B.
 Vinet, E.
 Vos, M.
 Walter, Richard L.
 Warmoth, Harold W.
 Webb, John M.
 Wheeler, C. M.
 Wiley, V. C.
 Williams, R. O.
 Wilson, Robert K.
 Wood, C. L.

MEMBERS

Anderson, N. E.
 Andrews, C. E.
 Armstrong, J.
 Arnold, W. H.
 Arvisais, Philippe A.
 Baumgartner, J. V.
 Aspin, Norman
 Baker, A. W.
 Beckett, L. R.
 Benedict, Roy P.
 Bergenthal, Victor W.
 Biagiotti, R. J.
 Bogart, G. H.
 Boatright, Burton C.
 Booth, William
 Bottini, S.
 Breiding, Eugene J.
 Brokenshire, W. S. Jr.
 Brown, C. J.
 Brown, Ralph W.
 Brown, Robert E.
 Buckley, D.
 Cabrera, J. M.
 Cannon, J. H.
 Castor, A. H.
 Cerame, S. J.
 Chaiken, Leon
 Chandler, Vincent
 Ciemielewski, Al
 Clair, Huie V.
 Combs, Leslie R.

Conley, F. M.
 Connor, William E.
 Corey, N. W.
 Cox, E. J. R.
 Craver, Joseph N.
 Crowley, W. M.
 D'Agostini, D. J.
 Davidson, S.
 Denyer, R. H.
 DeVebe, E. W.
 Dockstader, Lyle E.
 Donaldson, John M.
 Dong, P.
 Dougharty, B. P.
 Doughty, Horace J.
 Drazen, Yale
 Duffy, G. E. Sr.
 Dutton, Watson P.
 Ediger, L. S.
 Edwards, Joseph
 Evans, H. R.
 Facey, John W.
 Fallon, B. M.
 Feindel, Abbott
 Fincher, J. C.
 Fisher, Harold J.
 Fjeld, J. M.
 Flaaten, Donald S.
 Foley, James M.
 Foss, R. A.
 Foster, H. Bliss
 Frediani, J. J.
 Fridel, G. E.
 Gallagher, L. R.
 Gardner, R.
 Garland, Claude M.
 Gettmen, W. C.
 Gilkeson, W. R.
 Green, Joseph R.
 Harden, W. F.
 Harris, A. R.
 Harris, F. W.
 Harris, W. W.
 Hassinger, W. H. Jr.
 Hathaway, B. P.
 Hayes, W. F.
 Heinrich, Herbert W.
 Heistad, Rolf
 Helliwell, James
 Helt, S.
 Henderson, A. B.
 Henderson, F. C.
 Heyer, E. M. (Mrs.)
 Hill, Harold O.
 Holderness, H. C.
 Holmes, John J.
 Horn, Tyree R.
 Hughes, J. C.
 Johnson, K. R.
 Jones, T. W.
 Jucius, S. W.
 Kallus, Sidney
 Keck, P. H.
 Kelso, Leslie E. A.

Table 5 - Deceased Members - 1963 (continued)

MEMBERS (continued)

Killoran, John L.
 Kistler, William J.
 Knauss, H. P.
 Knight, Thomas S.
 Knowlton, Robert H.
 Knutson, Henry C. I.
 Korenblat, M. T.
 Krug, D. F.
 Kuester, Donald W.
 Lambie, J. W.
 Lamm, R. H.
 Larson, R. G.
 Lawson, C. J. V.
 Laycock, E. H.
 Lewis, George A.
 Lockwood, J. D. Jr.
 Lucas, G. D.
 Luke, Richard O.
 MacKay, Maurice P.
 Maegaard, Richard T.
 Manville, Charles B.
 Marable, Herbert E.
 Marshall, Herbert B. Jr.
 Martien, H. L.
 Martin, Homer E.
 Mason, Edward
 May, R. B.
 McDaniel, A. H.
 McMartin, D. W.
 Meredith, J. A.
 Merrill, O. E.
 Miller, James H.
 Mlodnosky, R. F.
 Moore, David H.
 Moore, George H.
 Moore, H. N.
 Morrison, James J.
 Muir, W. L.
 Myers, W. J.
 Newman, J. E.
 Nohr, Larry H.
 Nunez, J. M.
 O'Dwyer, John M.
 Olsen, R. N.
 Owens, William L.
 Pamler, Roland G.
 Parrott, D. F.
 Parsons, Clyde W.
 Paul, M. D.
 Pearsall, Charles H. Jr.
 Pena, P. Gomez
 Perkins, Theodore
 Pierce, Lonnie J.
 Pintner, C. J.
 Porterfield, Fred B.
 Prasek, C. J.
 Pratt, O. G.
 Quackenbush, Hiram H.
 Quinn, William T.
 Raits, Edward J.
 Reed, Taylor

Reilly, Thomas J.
 Reimann, A. R.
 Reynolds, George A.
 Richardson, G. B.
 Richardson, C. D.
 Richman, E. Jr.
 Richmond, Alfred L.
 Rogers, Frederick
 Rosenzvaig, J. E.
 Ross, W. S.
 Rohland, A. E.
 Ruffino, Eugene F.
 Sanders, John Jr.
 Sanford, D.
 Schultz, A. A.
 Schwering, K. W.
 Selditz, Norman
 Shaw, T. J.
 Sheldahl, J. O. Jr.
 Skipwith, L.
 Skottsky, H.
 Smith, C. G.
 Smith, E. B.
 Stevens, R. L.
 Stewart, Philip B.
 Sweazey, Irving
 Sweeney, W. R.
 Tabb, Richard P. E.
 Taylor, R. V.
 Tepper, Harold H.
 Theofil, Dimitri V.
 Thier, P.
 Thorn, W. D.
 Tompas, Richard P.
 Tremelling, R. F.
 Vogt, A. L.
 Volonnino, F. P.
 Vorum, Andrew H.
 Walechka, Charles
 Walls, J. F.
 Walsh, J.
 Ward, J. T.
 Washburn, H. H.
 Weeber, R. E.
 Weil, Kurt
 Wells, W. E.
 Wetherstein, P. R.
 Wilkins, C. R.
 Willoughby, J. W.
 Wills, D. M.
 Winfield, James
 Wolfish, Herman H.
 Wood, G. T.
 Woodhall, J. T.
 Woods, D. C.
 Wurdack, H.
 Yeager, R. L.
 Young, Charles W.
 Young, Wesley R.
 Ziemelis, Valids

ASSOCIATES

Bailey, C. E.
 Barrell, B. S.
 Buchspice, J. E.
 Bloom, Willard E.
 Bortkiewixz, Jan
 Cambre, Carlos A.
 Church, Thornton A.
 Collier, R. A.
 Cresap, M. W.
 Cruse J. H.
 Eicheldinger, Clement G.
 Gorby, John H.
 Haigh, J. B.
 Heaverlo, Harvey D.
 Horava, A. P.
 Huthmacher, J. E.
 Judd, H. W.
 Just, G. A. Jr.
 Kickler, E. M.
 Landells, J. H.
 Marsh, W. F.
 May, T. W.
 McNamara, W. E.
 Meinken, Kenneth C. Sr.
 Newman, Lewis
 Olick, Jack
 Petersen, W. P.
 Pidgeon, Brainerd S.
 Sawyer, Harvey L.
 Shepley, L.
 Sloan, F. M.
 Snyder, A. Robert
 Thomson, E. A.
 Thompson, W. T.
 Tibbits, Arthur E.
 Trowbridge, F.
 Vance, G.
 Webb, J. R.

STUDENTS

Carless, A. G.
 Dunn, B. T.
 Gorham, F. G.
 Kidwell, Keith K.
 Manchester, B. J.
 Miller, G. H. Jr.
 Nerland, H. T.
 Poling, J. L.
 Ramirez, H. E.
 Shafiyoon, M.
 Stephens, G. F.
 Tolbert, C. C.
 Warner, M. E.
 Warshauer, Joseph A.
 Zaid, H.

SECTION B

Table 1 - IEEE Membership by Region, by Section and Subsection, by Grade, December 31, 1963

REGION 1 Section	H	F	SM	M	A	Student	Sub- Total	Section Total
Berkshire		35	150	223	22	26		456
Binghamton		1	105	456	68	99		729
Boston	1	123	938	3,417	531	834	5,844	6,963
Lynn		5	87	187	27	42	348	
Merrimack Valley		2	93	424	86	166	771	
Buffalo		10	209	481	97	174		971
Connecticut		27	187	698	99	215	1,226	2,518
Fairfield County		20	199	583	132	75	1,009	
New London		4	36	152	34	57	283	
Elmira-Corning		4	33	107	20	28		192
Ithaca		6	25	97	5	98		231
Long Island		61	690	2,554	511	296		4,112
Maine		9	38	111	18	102		278
Mid-Hudson		6	79	615	92	45	837	1,136
Catskill			14	233	29	23	299	
Mohawk Valley		2	77	413	82	38	612	775
St. Lawrence International			16	36	7	104	163	
New Hampshire		9	80	307	45	176		617
New York	1	111	836	2,752	819	1,766	6,285	8,740
Monmouth		30	221	708	117	87	1,163	
Westchester		35	243	726	152	136	1,292	
North Jersey	1	178	1,085	3,040	531	690		5,525
Princeton		49	194	688	103	173		1,207
Providence		3	79	227	28	102	439	750
Southeastern Mass.		6	23	79	37	166	311	
Rochester		4	150	479	95	161		889
Schenectady		77	345	390	26	303	1,141	1,269
Adirondack		4	38	61	7	18	128	
Springfield		4	50	101	23	114		292
Syracuse		19	266	798	92	81		1,256
Vermont		3	30	54	9	78		174
Worcester		6	44	146	31	154		381
TOTALS	3	853	6,660	21,343	3,975	6,627		39,461

SECTION B

Table 1 - IEEE Membership by Region, by Section and Subsection, by Grade, December 31, 1963 (continued)

REGION 2 Section	F	SM	M	A	Student	Sub- Total	Section Total
Akron	10	105	555	44	64		778
Baltimore	39	440	1,316	181	145	2,121	2,646
Annapolis	6	80	315	39	20	460	
Eastern Shore		12	37	9	7	65	
Canton		47	85	14	33		179
Central Penna.	4	45	164	17	190		420
Cincinnati	10	133	472	61	86		762
Cleveland	44	467	837	149	286		1,783
Columbus	15	182	536	90	287		1,110
Dayton	19	228	647	126	247		1,267
Delaware Bay	3	63	159	11	91		327
Emporium-Ridgway	2	62	72	14	20		170
Erie	5	97	146	28	43		319
Johnstown	2	32	78	19	39		170
Lehigh Valley	13	193	439	73	249		967
Lima	3	47	119	4	42		215
North Central Ohio	2	41	68	8	8		127
Ohio Valley		12	32	8	7	59	68
Scioto		3	4	2		9	
Philadelphia	104	1,003	3,538	498	632		5,775
Pittsburgh	99	570	1,079	98	353		2,199
Sharon	10	84	107	16	100		317
So. New Jersey	1	16	104	17	24		162
Susquehanna	5	81	216	37	38		377
Washington	116	1,108	3,268	558	542		5,592
West Virginia		36	78	24	67		205
Williamsport		14	41	12	30		97
TOTALS	512	5,201	14,512	2,157	3,650		26,032

SECTION B

Table 1 - IEEE Membership by Region, by Section and Subsection, by Grade, December 31, 1963 (continued)

REGION 3 Section	F	SM	M	A	Student	Sub- Total	Section Total
Alabama	8	120	250	23	246		647
Atlanta	16	241	384	70	207		918
Baton Rouge	1	32	77	5	196		311
Canaveral	11	121	690	131	50		1,003
Central Virginia	6	72	237	18	65		398
Chattanooga	13	68	117	7	16		221
East Tennessee	4	98	138	8	119		367
Evansville - Owensboro	2	58	138	20	48		266
Florida West Coast	34	160	589	88	45		916
Fort Walton		8	59	8	8		83
Gainesville	3	32	70	7	143		255
Hampton Roads	4	46	258	40	27		375
Huntsville	1	63	558	60	42	724	755
Muscle Shoals		4	19	2	6	31	
Jacksonville		35	82	22	16		155
Lexington	1	17	81	6	95		200
Louisville	1	46	147	14	70		278
Memphis	2	60	73	15	137	287	330
Jackson		6	22	6	9	43	
Miami	16	116	255	63	83		533
Middle Tennessee		25	57	8	9		99
Mississippi	2	28	94	9	167		300
Mobile		16	97	7	6		126
Nashville	4	50	88	19	190		351
New Orleans	7	114	327	55	87		590
North Carolina							1,397
Central North Carolina		25	117	11	22	175	
Charlotte	9	99	145	20	41	314	
Eastern North Carolina	13	62	200	40	201	516	
Northwestern North Carolina	1	44	209	32	18	304	
Western North Carolina	5	26	41	7	9	88	
Oak Ridge		42	72	8	4		126
Orlando	12	94	310	60	17		493
Palm Beach	8	34	96	18	15		171
Panama City		10	39	7	12		68
Pensacola	1	14	34	3	5		57
Richmond	3	54	145	17	21		240
Savannah		16	34	4	2		56
South Carolina	9	85	229	39	305		667
Virginia Mountain	10	85	166	12	192		465
TOTALS	207	2,326	6,744	989	2,951		13,217

SECTION B

Table 1 - IEEE Membership by Region, by Section and Subsection, by Grade, December 31, 1963 (continued)

REGION 4 Section	F	SM	M	A	Student	Sub- Total	Section Total
Arrowhead	2	17	61	5	15		100
Cedar Rapids	7	78	340	50	91		566
Central Illinois	12	92	268	33	205		610
Central Indiana	15	165	538	72	437		1,227
Central Iowa	7	52	112	5	162		338
Chicago	58	801	2,048	529	1,053	4,489	5,366
Calumet	2	41	81	15	50	189	
Fox Valley	4	181	391	64	48	688	
Fort Wayne	12	104	198	33	159	506	549
Marion		6	26	6	5	43	
Illinois Valley	1	35	63	10	58		167
Iowa-Illinois	2	44	103	25	19	193	237
Burlington		5	31	7	1	44	
Madison	9	33	98	9	198		347
Milwaukee	28	264	714	77	358	1,441	1,553
Racine-Kenosha	1	15	63	12	21	112	
Nebraska	9	104	250	49	241		653
Northeast Michigan	3	48	118	18	55		242
Northeast Wisconsin	4	35	127	19	86		271
Rock River	1	35	129	17	31		213
Siouxland		22	41	13	28		104
South Bend	1	53	179	39	314		586
Southeastern Michigan	54	426	1,210	198	570		2,458
Southern Minnesota		9	88	12	18		127
Toledo	3	84	134	27	98		346
Twin Cities	16	170	1,018	106	429		1,739
West Michigan	3	59	128	25	53		268
TOTALS	254	2,978	8,557	1,475	4,803		18,067

REGION 5 Section	H	F	SM	M	A	Student	Sub- Total	Section Total
Arkansas		6	47	107	15	29	204	407
Northwest Arkansas			21	44	4	134	203	
Beaumont		4	41	101	26	149	321	363
Lake Charles		1	4	29	3	5	42	
Central Texas		14	98	254	50	131		547
Corpus Christi		3	30	44	12	53	142	174
Victoria Pt. Lavaca			8	16	6	2	32	
Dallas	1	20	269	1,091	142	367	1,961	1,924
Waco			6	19	6	3	34	
Denver		25	261	729	118	554		1,687
El Paso		1	43	247	48	211		550
Fort Worth		7	75	267	53	135		537
Houston		11	214	707	136	360		1,428
Kansas City		18	250	397	99	345		1,109
Oklahoma City		15	126	287	53	124		605
Panhandle		1	29	57	14	7		108
St. Louis		37	290	782	96	737	1,978	2,085
Eastern Div.		2	19	77	18	27	143	
Shreveport		3	79	98	31	114		325
South Plains			14	26	12	59	111	151
Permian Basin			4	30	3	3	40	
Tulsa		9	111	210	53	231		614
West Central Texas		1	15	39	6	3		64
Wichita		6	75	153	31	105		370
TOTALS	1	184	2,129	5,811	1,035	3,888		13,048

SECTION B

Table 1 - IEEE Membership by Region, by Section and Subsection, by Grade, December 31, 1963 (continued)

REGION 6 Section	H	F	SM	M	A	Student	Sub- Total	Section Total
Alamogordo- Holloman			13	67	17	7		104
Albuquerque		3	117	385	84	151		740
Los Alamos-Santa Fe			31	78	7	3	119	
Anchorage			17	76	33	14		140
Boise			35	39	2			76
Buena Ventura		1	33	196	23	18		271
China Lake			11	99	14	9		133
Foothill		9	171	777	101	138		1,196
Ft. Huachuca		1	27	65	8	6		107
Hawaii			38	200	56	31		325
Idaho			8	62	4	21		95
Las Vegas		1	15	110	28	5		159
Metropolitan Los Angeles		13	222	865	179	277		1,556
Montana		2	32	117	15	78		244
Orange County		12	331	1,924	276	171		2,714
Phoenix		19	208	705	89	133		1,154
Portland		36	229	463	63	247		1,038
Richland		3	46	80	13	14	156	191
Walla Walla			6	19	3	7	35	
Sacramento		4	83	263	58	28	436	620
Reno		1	14	37	5	29	86	
San Joaquin			10	24	12	15	61	
Shasta		1	3	20	10	3	37	
San Diego		16	178	866	131	113		1,304
San Fernando Valley		16	413	1,474	244	135		2,282
San Francisco		148	1,085	4,502	646	961		7,342
San Gabriel Valley	1	9	222	663	94	110		1,099
Santa Barbara		12	63	227	24	251		577
Santa Monica Bay		39	374	1,141	131	134		1,819
Seattle		9	266	1,160	97	231		1,763
Tacoma		2	23	66	7	20	118	
South Bay Harbor		5	224	1,181	171	107		1,688
Spokane		8	54	83	11	115		271
Tucson		5	61	173	23	129		391
Utah		5	61	270	24	291		651
Vandenberg			21	149	51	30		251
Wenatchee			10	27	6	5		48
TOTALS	1	380	4,755	18,653	2,760	4,037		30,586

SECTION B

Table 1 - IEEE Membership by Region, by Section and Subsection, by Grade, December 31, 1963 (continued)

REGION 7							
Section	F	SM	M	A	Student	Sub-Total	Section Total
Bay of Quinte	3	33	81	14	47		178
Hamilton	2	46	140	32	45		265
Kitchener-Waterloo		12	33	23	35	103	142
Guelph		13	20	4	2	39	
London	1	14	72	24	69		180
Montreal	15	242	777	125	260		1,419
Niagara International	2	44	95	24	38		203
Northern Alberta		8	82	31	110		231
Ottawa	15	95	399	91	84		684
Quebec		30	82	18	62		192
Regina		4	38	10	73		125
St. Maurice	1	7	32	9	13		62
Southern Alberta		3	40	34	142		219
Toronto	20	203	720	216	325		1,484
Vancouver	7	119	268	74	221		689
Victoria	2	20	53	12	11		98
Winnipeg	3	14	89	34	72		212
TOTALS	71	907	3,021	775	1,609		6,383

REGION 8							
Section	F	SM	M	A	Student	Sub-Total	Section Total
Benelux	8	65	120	30	67		290
Egypt		10	30	15	16		71
France	11	76	119	49	3		258
Geneva	11	63	139	18	19		250
Israel	2	10	73	18	18		121
Italy	1	36	183	124	184		528
Norway	1	9	40	8	1		59
United Kingdom and Eire	42	286	586	85	39		1,038
West Germany	8	51	64	25	7		155
TOTALS	84	606	1,354	372	354		2,770

REGION 9							
Section	F	SM	M	A	Student	Sub-Total	Section Total
Buenos Aires	5	27	73	32	122		259
Chile		7	22	11	25		65
Colombia		9	59	11	71		150
Mexico	4	53	131	15	60		263
Rio de Janeiro	3	9	40	10	6		68
Tokyo	6	84	252	90	141		573
TOTALS	18	189	577	169	425		1,378

SECTION B

Table 2 - IEEE Membership in Regions 8 and 9 (excluding Sections), U. S. Possessions and Overseas Military, December 31, 1963

Country	F	SM	M	A	Student	Total
Aden (9)			3			3
Afghanistan (9)		1	1	1		3
Algeria (8)			1	1		2
Angola (9)				1		1
Antilles (9)			2			2
Ascension Island (9)			1			1
Austria (8)		3	7		1	11
Australia (9)	2	52	141	21	12	228
Bermuda (9)		3	1	1		5
Bolivia (9)			4			4
Brazil (except Rio Sec.) (9)	1	10	58	21	35	125
British Guiana (9)		2	1			3
British West Indies						
Burma (9)		2	7	1	1	11
Ceylon (9)		3	5	1		9
Congo (9)			1			1
Costa Rica (9)		2	7	2	2	13
Cuba (9)	3		3			6
Cyprus (8)		3	10	1		14
Czechoslovakia (8)		1	8	5		14
Denmark (8)	1	14	63	17	13	108
Ecuador (9)		5	6	3	1	15
El Salvador (9)	1		11			12
Ethiopia (9)			5		1	6
Fiji Islands (9)			1			1
Finland (8)		2	4	4		10
Formosa (9)		1	8			9
Germany (except West Germany Sect.) (8)		4	2	1		7
Ghana (9)		3	5	2	1	11
Greece (8)	1	3	25	10		39
Guatemala (9)			6	1		7
Honduras (9)			2			2
Hong Kong (9)		4	24	9		37
Hungary (8)		3	1			4
Iceland (8)			3	2		5
India (9)	3	121	414	65	6	609
Indonesia (9)		4	6	31	1	42
Iran (8)		4	12			16
Iraq (8)		1	4	1		6
Ivory Coast (9)		1				1
Jordan (8)		1	2			3
Kenya (9)		1	8	2		11
Korea (9)		4	11	3	2	20
Kuwait						
Lebanon (8)		4	17	4		25
Liberia (9)		4	1			5
Libya (8)		3	6	2		11
Malaya (9)		5	38	2		45
Malaysia (9)			4	1		5
Malta (8)			3			3
Mauritius (9)			2			2
Morocco (8)			1	1		2
Nepal (9)			1			1
New Guinea (9)			1			1
New Zealand (9)		6	18	5		29
Nicaragua (9)		1	2			3
Nigeria (9)		4	14	3		21
Okinawa (9)						

SECTION B

Table 2 - IEEE Membership in Regions 8 and 9 (excluding Sections), U. S. Possessions and Overseas Military, December 31, 1963 (continued)

<u>Country</u>	<u>F</u>	<u>SM</u>	<u>M</u>	<u>A</u>	<u>Student</u>	<u>Total</u>
Pakistan (9)	1	17	53	7		78
Panama (9)		3	3	1	1	8
Paraguay (9)		1			1	2
Persian Gulf (9)						
Peru (9)		6	18	3	1	28
Philippine Islands (9)		7	15	5	1	28
Poland (8)		3	3	4		10
Portugal (8)		1	3			4
Rhodesia/Nyasaland (9)		3	7	1		11
Rumania (8)			3			3
Samoa (9)			1			1
Saudi Arabia (8)		5	25	4	1	35
South Africa (9)		17	35	6	1	59
Spain (8)		6	22	4	50	82
Sudan (9)			3	2	1	6
Sweden (8)	8	24	111	59	24	226
Syria (8)			4		2	6
Tanganyika (9)		2	2			4
Thailand (9)	1	8	23	3	2	37
Turkey (8)		1	17	3	3	24
Uruguay (9)			4	3		7
USSR (8)		17	1	6	1	25
Venezuela (9)		18	64	21	5	108
Viet-Nam (9)		2	2	2	1	7
West Indies (9)		11	31	9	1	52
Yugoslavia (8)		2	4	2		8
U. S. Possessions	1	14	90	14	91	210
U. S. Overseas	3	70	642	124	69	908
TOTALS	26	523	2,178	508	332	3,567

SECTION B

Table 3 - IEEE Section and Subsection Meetings, 1963 *

Section and section	S	Meetings		Section and Subsection	S	Meetings		
		SS	PTG			TG	SS	PTG
Akron (IRE)	3		4	Central Florida (AIEE)	2			
Akron (AIEE)	4			Central Illinois (AIEE)	5			
Akron (IEEE)	1		3	Central Illinois (IEEE)	4			
Alabama (AIEE)	4			Central Indiana (AIEE)	6			
Alabama (IEEE)	3		3	Bloomington		5		
Alamogordo-Holla. (IRE)	4			Evansville		4		
Alamogordo-Holla. (IEEE)	2			Central Indiana (IEEE)	4			
Albuquerque-Los. A. (IRE)	7		15	Bloomington		3		
Albuquerque (IEEE)	1		5	Central Iowa (IEEE)	4			1
Los Alamos-Santa Fe		3		Central Pennsylvania (IRE)	4			
Anchorage (IRE)	5			Central Pennsylvania (IEEE)	3			
Anchorage (IEEE)	3			Central Texas (IEEE)	4			1
Arkansas (AIEE)	6			Central Virginia (IEEE)	1			
N. W. Arkansas		5		Chattanooga (AIEE)	6			
Arkansas (IEEE)	3			Chattanooga (IEEE)	5			
N. W. Arkansas		-		Chicago (IRE)	6		30	
Arrowhead (AIEE)	5		4	Chicago (AIEE)	3			6
Arrowhead (IEEE)	-			Calumet		3		
Atlanta (IRE)	2			Fox Valley		4		
Atlanta (IEEE)	4		1	Chicago (IEEE)	4		19	2
Baltimore (IRE)	2		23	Calumet		1		
Baltimore (IEEE)	3		16	Fox Valley		4		
Annapolis		1		Chile (IRE)	1			
Eastern Shore		2		Chile (IEEE)	2			
Baton Rouge (AIEE)	6			China Lake (IRE)	4			
Baton Rouge (IEEE)	6			China Lake (IEEE)	2			
Bay of Quinte (IRE)	3			Cincinnati (IRE)	5		1	
Bay of Quinte (IEEE)	3			Cincinnati (AIEE)	4			
Beaumont-Port A. (IRE)	6			Cincinnati (IEEE)	7			
Beaumont (AIEE)	6			Cleveland (IRE)	3		15	
Lake Charles		3		Cleveland (AIEE)	5			22
Beaumont (IEEE)	2			Cleveland (IEEE)	2		11	4
Lake Charles		2		Colombia (IRE)	-			
Benelux (IRE)	3			Colombia (IEEE)	3			
Benelux (IEEE)	-			Columbus (IRE)	6			8
Berkshire (IEEE)	2			Columbus (AIEE)	7			
Binghamton (IRE)	9		2	Chillicothe		5		
Binghamton (IEEE)	-		2	Zanesville		5		
Boise (AIEE)	6			Columbus (IEEE)	3		3	
Boise (IEEE)	4			Connecticut (IRE)	2			
Boston (IRE)	4		46	Fairfield County		4		
Merrimack Valley		4		Connecticut (AIEE)	6			5
New Hampshire		3		New London		4		
Northern Vermont		4		Connecticut (IEEE)	11			
Providence		4		Fairfield Country		3		
Boston (AIEE)	14			New London		4		
Boston (IEEE)	1		22	3	Corpus Christi (AIEE)	8		5
Lynn		3		Victoria-Pt. Lavaca		5		
Merrimack Valley		3		Corpus Christi (IEEE)	3			1
Buenos Aires (IRE)	2			Victoria-Pt. Lavaca		1		
Buenos Aires (IEEE)	9			Dallas (IRE)	4		4	
Buffalo-Niagara (IRE)	5			Dallas (IEEE)	12			
Buffalo (IEEE)	4			Waco		1		
Canaveral (IRE)	6		4	Dayton (IRE)	3		7	
Canaveral (IEEE)	3		2	Dayton (AIEE)	2			
Canaveral (IEEE)	5			Dayton (IEEE)	-			
Canaveral (AIEE)	5			Delaware Bay (AIEE)	5			1
Canaveral (IEEE)	3			Delaware Bay (IEEE)	3			
Cedar Rapids (IRE)	3			Denver (IRE)	-		3	
Burlington		1						
Cedar Rapids (IEEE)	-							

Section and Subsection	S	Meetings		TG	Section and Subsection	S	Meetings		
		SS	PTG				SS	PTG	TG
Pikes Peak	-				Houston (IEEE)	3		4	1
Denver (AIEE)	5			9	Freeport	-			
Black Hills		3			Hudson Valley (AIEE)	4			
Denver (IEEE)	2				Huntsville (IRE)	4		1	
Black Hills		-			Memphis	-			
Pikes Peak		-			Nashville	-			
Detroit (IRE)	2		8		Huntsville (IEEE)	-			
East Tennessee (AIEE)	3				Muscle Shoals	3			
Upper East Tenn.		4			Idaho (AIEE)	7			
East Tennessee (IEEE)	-				Southern Idaho	-			
Upper East Tenn.		-			Idaho (IEEE)	5		1	
Egypt (IRE)	7				Illinois Valley (AIEE)	6		3	
Egypt (IEEE)	1				Illinois Valley (IEEE)	5		1	2
Elmira-Corning (IRE)	6				Indianapolis (IRE)	6			
Elmira-Corning (IEEE)	3				Iowa (AIEE)	6			1
El Paso (IRE)	4				Iowa-Illinois (AIEE)	5			4
Las Cruces-White					Cedar Valley	-			
Sands Proving Ground	-				Iowa-Illinois (IEEE)	3			
El Paso (AIEE)	2				Burlington	1			
El Paso (IEEE)	3				Israel (IRE)	3			
Emporium (IRE)	6				Israel (IEEE)	3			
Emporium-Ridgway (IEEE)	5				Italy (IRE)	-			
Erie (IRE)	-				Italy (IEEE)	-			
Erie (AIEE)	6			3	Ithaca (IRE)	5			
Erie (IEEE)	5				Ithaca (AIEE)	-			1
Evansville-Owens. (IRE)	6				Binghamton	-			
Evansville-Owens (IEEE)	4				Ithaca (IEEE)	3			
Florida West Coast (IRE)	6		2		Jacksonville (AIEE)	5			12
Florida West Coast (AIEE)	6			7	Gainesville	-			
Florida West Coast (IEEE)	3		1	2	Jacksonville (IEEE)	3			2
Foothill (IEEE)	2		2		Johnstown (AIEE)	5			2
Fort Huachuca (IRE)	4		1		Johnstown (IEEE)	4			2
Fort Hauchuca (IEEE)	3		1		Kansas City (IRE)	4			
Fort Walton (IEEE)	3				Kansas City (AIEE)	5			12
Fort Wayne (IRE)	7				Kansas City (IEEE)	1			
Fort Wayne (AIEE)	1				Kitchener-Waterloo (IRE)	4			
Marion		4			Kitchener-Waterloo (IEEE)	3			
Fort Wayne (IEEE)	3				Guelph	4			
Marion		1			Las Vegas (IRE)	4			
Fort Worth (IRE)	5		3		Las Vegas (IEEE)	-			
Fort Worth (IEEE)	3				Lehigh Valley (AIEE)	5			13
France (IRE)	1				Lehigh Valley (IEEE)	3		1	3
France (IEEE)	1				Lexington (IEEE)	1			
Gainesville (IRE)	4				Lima (AIEE)	6			5
Gainesville (IEEE)	4				Lima (IEEE)	3			3
Geneva (IRE)	3				Little Rock (IRE)	5			
Geneva (IEEE)	2				London (IRE)	4			
Georgia (AIEE)	5				Southwestern Ontario	-			
Rome		5			London (AIEE)	2			
Gulf Coast (AIEE)	5				London (IEEE)	3			
Panama City		-			Long Island (IRE)	12			15
Hamilton (IRE)	4				Long Island (IEEE)	-			5
Hamilton (AIEE)	8			1	Los Angeles (IRE)	6			80
Guelph		5			Buenaventura		6		4
Hamilton (IEEE)	5				Crescent Bay		6		
Hampton Roads (AIEE)	3				Orange Belt		4		1
Hampton Roads (IEEE)	4				Pasadena		5		
Hawaii (IRE)	4				San Fernando Valley		5		
Hawaii (AIEE)	6				Santa Ana		5		9
Hawaii (IEEE)	3				Santa Barbara		6		
Houston (IRE)	5		5		Southern		5		
Houston (AIEE)	-			4	Vandenberg		2		
Freeport		3			Los Angeles (AIEE)	6			26
					Boulder City		-		

Section and Subsection	S	SS	Meetings		Section and Subsection	S	SS	Meetings	
			PTG	TG				PTG	TG
Channel Counties		5			New York	6		38	
Orange County		4			Catskill		3		
Riverside-San Bernardino		2			Mid-Hudson		5		
Los Angeles District (IEEE)			38	3	Monmouth		5		
Louisville (IRE)	3				Westchester		12		
Louisville (AIEE)	2				New York (AIEE)	1			12
Lexington		5			New Jersey Div.		3		
Louisville (IEEE)	5				New York (IEEE)	1		7	4
Lynn (AIEE)	7				Monmouth		3		
Merrimack Valley		4			Westchester		-		
Lubbock (IRE)	1				Niagara Frontier (AIEE)	2			
Madison (AIEE)	-				Niagara Intl. (AIEE)	6			4
Madison (IEEE)	2				Niagara Intl. (IEEE)	9			
Maine (AIEE)	3			10	North Alabama (AIEE)	-			
Maine (IEEE)	2				Muscle Shoals		4		
Mansfield (AIEE)	6				North Carolina (IRE)	7		2	
Maryland (AIEE)	5			18	Eastern N. C.		5		
Eastern Shore		3			Western N. C.		5		
Memphis (AIEE)	6				North Carolina (AIEE)	4			14
Jackson		4			Charlotte		5		
Memphis (IEEE)	3			3	Eastern N. C.		6		
Jackson		4			Mid-State		3		
Metropolitan L. A. (IEEE)	1				N. Piedmont		4		
Mexico (AIEE)	8				Western N. C.		7		
Monterrey		-			North Carolina (IEEE)	3		2	6
Mexico (IEEE)	-				Central N. C.		4		
Miami (IRE)	6		1		Charlotte		5		
Palm Beach		1			Eastern N. C.		4		
Miami (AIEE)	2				Northwestern N. C.		4		
Miami (IEEE)	2				Western N. C.		4		
Michigan (AIEE)	5			10	North Central Ohio (IEEE)	2			
Middle Tennessee (AIEE)	8			7	Northeast Michigan (AIEE)	-			
Middle Tennessee (IEEE)	4				Northeast Michigan (IEEE)	4			
Mid-Hudson (IEEE)	2				Northeastern Michigan (AIEE)	-			
Catskill		2			Northeast Wisconsin (AIEE)	6			
Milwaukee (IRE)	3		2		Northeast Wisconsin (IEEE)	5		1	
Milwaukee (AIEE)	4			12	Northern Alberta (IRE)	8			
Racine-Kenosha		1			Northern Alberta (IEEE)	1			
Milwaukee (IEEE)	3			3	Northern N. J. (IRE)	3			13
Racine-Kenosha		-			Northern N. M. (AIEE)	-			
Minnesota (AIEE)	4			5	Los Alamos-Santa Fe		-		
Red River Valley		7			North Jersey (IEEE)	3			6
Mississippi (AIEE)	3			3	Northwest Florida (IRE)	3			
Mississippi (IEEE)	4				Panama City		2		
Mobile (IRE)	6				Norway (IRE)	1			
Mobile (IEEE)	3				Norway (IEEE)	1			
Mohawk Valley (IEEE)	3		5		North Texas (AIEE)	4			3
St. Lawrence Intl.		3			Central Texas		5		
Montana (AIEE)	3				Fort Worth		2		
Billings		4			Permian Basin		6		
Butte		-			West Central Texas		5		
Helena		6			Oak Ridge (AIEE)	5			
Montana (IEEE)	-				Oak Ridge (IEEE)	4			
Montreal (IRE)	6		2		Ohio Valley (AIEE)	4			
Montreal (AIEE)	10				Scioto Valley		3		
Quebec		3			Ohio Valley (IEEE)	3			
Montreal (IEEE)	3		1		Scioto		2		
Nashville (AIEE)	5				Oklahoma City (IRE)	2		1	
Nashville (IEEE)	4				Oklahoma City (AIEE)	4			3
Nebraska (AIEE)	6			20	Oklahoma City (IEEE)	-			
Nebraska (IEEE)	4			8	Omaha-Lincoln (IRE)	1			14
New Hampshire (AIEE)	4				Orange County (IEEE)	3			1
New Hampshire (IEEE)	2				Orlando (IRE)	6			4
New Orleans (IRE)	-								
New Orleans (AIEE)	6								
New Orleans (IEEE)	5								

Section and Subsection	S	SS	Meetings		Section and Subsection	S	SS	Meetings	
			PTG	TG				PTG	TG
Orlando (IEEE)	2		3		Saint Louis (AIEE)	6			3
Ottawa (IRE)	4		4		Eastern Division		4		
Ottawa (AIEE)	5				Saint Louis (IEEE)	6		1	4
Ottawa (IEEE)	4		2		Eastern Division		1		
Palm Beach (AIEE)	5				St. Maurice Valley (AIEE)	3			
Palm Beach (IEEE)	6				St. Maurice (IEEE)	-			
Panama City (IEEE)	2				Salt Lake City (IRE)	6		1	
Panhandle (IEEE)	5				San Antonio-Austin (IRE)			1	
Panhandle Plains (AIEE)	6				San Diego (IRE)	6		4	
Pensacola (IEEE)	5				San Diego (AIEE)	6			5
Philadelphia (IRE)	6		46		San Diego (IEEE)	4		3	2
Lancaster		5			San Fernando Valley (IEEE)	4			
Lehigh Valley		-			San Francisco (IRE)	-		42	
Reading		-			East Bay		1		
Philadelphia (AIEE)	4			15	San Francisco (AIEE)	3			17
Atlantic City Div.		-			Fresno		5		
Princeton-Trenton		3			Reno		5		
Philadelphia (IEEE)	3		26	9	Santa Clara Valley		6		
Phoenix (IRE)	7		3		Shasta		2		
Phoenix (IEEE)	1		2	6	San Francisco (IEEE)	-		21	1
Pittsburgh (IRE)	6		10		East Bay		1		
Cambridge		2			Santa Clara Valley		3		
Pittsburgh (AIEE)	4			1	San Gabriel Valley (IEEE)	1			
Centre County		4			Santa Barbara (IEEE)	3			
Upper Monongehela		4			Santa Monica Bay (IEEE)	3			
Pittsburgh (IEEE)	2		2		Savannah (AIEE)	6			
Upper Monongehela		-			Savannah (IEEE)	2			
Pittsfield (AIEE)	7				Schenectady (IRE)	-		5	
Portland (IRE)	6		4		Schenectady (AIEE)	2			7
Portland (AIEE)	15			5	Adirondack		4		
Eugene		2			Schenectady (IEEE)	2		2	2
Medford		5			Adirondack		2		
Portland (IEEE)	6				Seattle (IRE)	6		12	
Princeton (IRE)	5				Richland		-		
Princeton (IEEE)	3				Seattle (AIEE)	8			9
Providence (AIEE)	6				Alaska		1		
S. Eastern Mass.		3			Tacoma		4		
Providence (IEEE)	2				Seattle (IEEE)	4		7	
S. Eastern Mass.		-			Tacoma		4		
Regina (IRE)	2				Sharon (AIEE)	4			
Regina (IEEE)	3				Sharon (IEEE)	3			
Richland (AIEE)	4				Shreveport (IRE)	5			
WallaWalla		3			Shreveport (AIEE)	4			2
Richland (IEEE)	4				Monroe		4		
Walla Walla		2			Shreveport (IEEE)	3			
Richmond (IEEE)	4				Siouxland (AIEE)	4			
Ridgway (AIEE)	1				Siouxland (IEEE)	3			
Rio de Janeiro (IRE)	3				South Bay Harbor (IEEE)	2			
Rio de Janeiro (IEEE)	-				South Bend-Mish. (IRE)	3			
Rochester (IRE)	3		6		South Bend (AIEE)	7			
Rochester (AIEE)	10			9	South Bend (IEEE)	3			
Rochester (IEEE)	4		5		South Carolina (IRE)	-			
Rock River Valley (AIEE)	-				South Carolina (AIEE)	-			
Rock River (IEEE)	3				Central Savannah River		7		
Rome-Utica (IRE)	1				Charleston		5		
Sacramento (IRE)	7				Columbia		4		
Sacramento (AIEE)	5			6	Piedmont		5		
San Joaquin		5			South Carolina (IEEE)	-			
Sacramento (IEEE)	1				Central Savannah River		3		
Reno		3			Charleston		-		
San Joaquin		2			Columbia		-		
Shasta		-			Piedmont		1		
Saint Louis (IRE)	5		3		Southeastern Mich. (IEEE)	3			7

Section and Subsection	S	Meetings			Section and Subsection	S	Meetings		
		SS	PTG	TG			SS	PTG	TG
Southern Alberta (IRE)	5				Vancouver (AIEE)	11			4
Southern Alberta (IEEE)	2				Vancouver (IEEE)	2		2	3
Southern Arizona (AIEE)	4				Vandenberg (IEEE)	3			
Port Huachuca	-				Vermont (AIEE)	7			
Southern Minnesota (IEEE)	1				Vermont (IEEE)	3			
Southern New Jersey (AIEE)	4				Victoria (AIEE)	6			
Southern N. J. (IEEE)	3				Victoria (IEEE)	4			
South Plains (IEEE)	-				Virginia (IRE)	2			
Permian Basin		3			Piedmont		5		
South Texas (AIEE)	6				Tidewater		3		
Spokane (AIEE)	7			4	Virginia (AIEE)	-			
Spokane (IEEE)	4				Blue Ridge		5		
Springfield (AIEE)	5			4	Richmond		4		
Springfield (IEEE)	7		2	2	Virginia Mountain (AIEE)	5			
Susquehanna (AIEE)	7				Virginia Mountain (IEEE)	3			
Susquehanna (IEEE)	3				Washington (IRE)	3		39	
Syracuse (IRE)	1		6		Washington (AIEE)	3			
Syracuse (AIEE)	5				Washington (IEEE)	-		12	
St. Lawrence Intl.		3			Wenatchee (AIEE)	5			
Syracuse (IEEE)	-		1		Wenatchee (IEEE)	3			
Tokyo (IRE)	2		1		West Central Texas (IEEE)	2			
Tokyo (IEEE)	-				Western Mass. (IRE)	4			
Toledo (IRE)	4				West Germany (IEEE)	-			
Toledo (AIEE)	3			3	West Michigan (AIEE)	5			
Toledo (IEEE)	5				West Michigan (IEEE)	4			
Toronto (IRE)	7		6		West Virginia (AIEE)	8			
Toronto (AIEE)	8			7	West Virginia (IEEE)	9			
Toronto (IEEE)	-				Wichita (IRE)	3			
Tucson (IRE)	3				Wichita (AIEE)	8			
Tucson (IEEE)	4				Wichita (IEEE)	1			
Tulsa (IRE)	3				Williamsport (IRE & IEEE)	-			
Tulsa (AIEE)	7				Winnipeg (IRE)	6			
Tulsa (IEEE)	2			1	Winnipeg (IEEE)	4			
Twin Cities (IRE)	6		8		Worcester (AIEE)	4			
Twin Cities (IEEE)	2		2		Worcester County (IEEE)	2			1
United Kingdom & Eire	-								
Utah (AIEE)	6								
Utah (IEEE)	-		1						
Vancouver (IRE)	5								
Victoria		1							
					Totals	1,545	484	789	460
					Grand Total:	3,278			

* As reported to IEEE Headquarters 12/31/63.

Table 4 - IEEE Section and Subsection Publications, 1963

A major activity of many Sections and the larger Subsections is the publication of a local monthly Bulletin to fulfill the need for announcing to the Section member the increasing activities of the Section, including (1) Section Meetings (2) Professional Technical Group Chapter Meetings and (3) Technical Group Meetings.

Fifty-four of the Sections and Subsections now issuing these monthly publications are listed below:

<u>Section</u>	<u>Publication</u>
Akron	"The Bulletin"
Albuquerque	"The Blast"
Baltimore	"The Speaker"
Benelux	"The Benelux Bridge"
Binghamton	"Pulse"
Boston	"The Reflector"
Canaveral	"Indian River Engineer"
Central Indiana	"The Reporter"
Central Pa.	"Newsletter"
Central Texas	"The Analog"
Chicago	"Astron"
Cleveland	"Cleveland Section News"
Columbus	"IEEE Messenger"
Connecticut	"The CONNector"
Dallas	"Direction"
Dayton	"Wave Guide"
Emporium-Ridgway	"Newsletter"
Evansville-Owensboro	"The Transmitter"
Florida West Coast	"Suncoast Signal"
Fort Walton	"The Courier"
Fort Wayne	"The Announcer"
Houston	"The Scope"
Huntsville	"The Live Wire"
Long Island	"The Pulse"
Los Angeles	"The Bulletin"
Miami	"Miamitron"
Mohawk Valley	"IEEE Echoes"
Monmouth Sub.	"The Scanner"
New York	"The Monitor"
North Carolina	"Bulletin"
North Jersey	"Newsletter"
Oklahoma City	"Sooner Satellite"
Ottawa	"IEEE Bulletin"
Philadelphia	"The Almanack"
Pittsburgh	"Bulletin"
Portland	"The BEEP"
Princeton	"The P. S."
Rochester	"The Communicator"
St. Louis	"The Mighty MHO"
San Diego	"IEEE Bulletin"
San Francisco	"The Grid"
	"The Mid-Month Grid"
Schenectady	"Capitol City News Bulletin"
Seattle	"Data Link"
South Bend	"The Nucleus"
South Carolina	"Southern Corona"
Southeastern Michigan	"Cross Talk"
Syracuse	"Scanner"
Tokyo	"Denshi Tokyo"
Twin Cities	"The Radiator"
Utah	"Salt Lake Crystal"
Vancouver	"The Transform"
Vermont	"The Viren"
Virginia Sections	"Virginia Vector"
Washington	"Bulletin"

REPORT OF TECHNICAL ACTIVITIES
PROFESSIONAL TECHNICAL GROUPS (PTG)
TECHNICAL OPERATIONS COMMITTEE (TOC)

General. The continuation of the former IRE Professional Groups as the IEEE Professional Technical Groups and the former AIEE and IRE Technical Committee structures as the IEEE Technical Operations Committee, characterized the first year of IEEE operations. During that year, because of overlapping fields of interest and the basic differences in operational methods of Groups and Committees, many problems of mutual concern came under discussion.

- 1.1 Ten Areas of Activity have been outlined and Table I lists existing Groups and Committees under each.
- 1.2 Professional Technical Groups and Technical Discussion Groups, operating on the Section level, conducted 789 meetings and 460 lecture courses during 1963.
- 1.3 Cooperation between the Groups and Committees developed in such areas as Standards and participation of Groups in Committee activities.
- 1.4 General meetings involving both PTG and TOC participation were held, notably the Winter General Meeting and the International Convention in New York, the Summer General Meeting at Toronto, WESCON at San Francisco, Pacific Annual Meeting in Spokane, and the National Electronics Conference at Chicago.
- 1.5 Trends have developed looking toward a more unified approach for possible consolidation of technical papers generated by the PTG's and Committees.

2. Professional Technical Group (PTG) Operations.

- 2.1 The number of Groups has grown from 29 to 32 as listed in Table 2.
- 2.2 Twenty special Conferences, Symposia and other meetings were sponsored within IEEE by the PTG's. In addition there were ten jointly-sponsored meetings with other engineering societies.
- 2.3 Three new Groups, six mergers involving Committees and eleven sets of merger negotiations initiated during the year are listed in Table 3.
- 2.4 PTG Statistics. (See Tables 4, 5, 6, 7.) The number of Chapters has grown, as has the number of meetings sponsored by Chapters within their Sections. These data are given in Table 3 of Section B, and Table 7 of this Section C.

Thirty of the Groups published TRANSACTIONS and twenty-two of these published Newsletters. It is estimated that 35,000 IEEE members belong, on the average, to two Groups. These Group members received the publications and Conference notices and other special materials generated by the respective Groups. Apart from the TRANSACTIONS, which are mailed by the printer, approximately 1,000 Group mailings were handled by IEEE Headquarters.

3. TOC Organization. The Technical Operations Committee (TOC) Organization has undergone substantial change during the past year. The organizational set-up at the close of 1963 is pictured in the Chart on page 23.

Discontinuance of several TOC Subcommittees, where the need for function had dissipated, has reduced their number from 9 to 4; Information Retrieval, Special Technical Conferences, TOC Manual, and West Coast. Following presentation of its latest Progress Report, in the fall of this year, it was decided that the Ad Hoc Committee on Processing, Quality and Distribution of Papers should continue in existence until the end of 1963. A joint PTG/TOC Ad Hoc Committee to Recommend Future Meetings Pattern was established and added to the roster.

One of the two TOC Institute Technical Groups, the ITG on Aero-Space, with the four Technical Committees involved, moved into the PTG organization; the other, the ITG on Automatic Control, remained an integral part of TOC through 1963, with PTGAC merger negotiations pending finalization. TOC units merging with PTG's or forming new PTG's, inter-divisional transfers of Technical Committees, TC and divisional consolidations, etc., have brought about a reorganized Divisional/Technical Committee structure.

The four Divisions shown in the Organization Chart supervise and coordinate the activities of the designated number of Technical Committees and Subcommittees. The Technical Committees perform the following functions:

- a. Procure, review, and classify for publication, technical material.

During 1963 the Communication Division, Instrumentation Division, and Science & Electronics Division together published 696 Transactions pages in the Bimonthly "Communications & Electronics"; General Applications Division and Industry Division together published 372 Transactions pages in the Bimonthly "Applications & Industry"; and Power Division published 1,148 Transactions pages in the Bimonthly "Power Apparatus & Systems"; a total of 2,216 Transactions pages.

- b. Organize and present this technical material at IEEE meetings, symposia, and special technical conferences.

- c. Through the Subcommittees, generate Standards material for coordination by the Standards Committee.

The Standards Committee is the most active of the four TOC General Committees (which include New Technical Activities, Research and Safety). Twenty-two Voting Members constitute the Standards Committee which approves the content of Standards Publications, establishes the rules and procedures for the various functions of the Committee and forms the nucleus of a far-reaching organization. Because the Committee must keep in touch with the thinking and activities of the Standards-generating units within the IEEE (the Technical Committees, Technical Committees-Standards, and, recently, the Professional Technical Groups) and other organizations (ASA, CSA, EEI, EIA, ISA, NBS, NEMA, SMPTE, and UL), a very important auxiliary group, consisting of several hundred appointees that serve as Liaison Representatives to and from these activities, was established very early in the year. Communication between the Liaison Representatives of the IEEE-based activities and those of the other organizations is fostered extensively. The Committee devoted major portions of six meetings during 1963 to the establishment of procedures for the most effective method of operation. To accomplish this task, ten ad hoc committees were appointed to study key subjects and present recommendations to the Standards Committee for adoption and implementation. The Technical Committees-Standards referred to in the foregoing grouping of Standards-generating units within the IEEE are twenty-five Technical Committees carried over from the IRE structure and are unique to the Standards functions in that they concentrate their attention on definitions, symbols, and methods of measurement as compared with the many-faceted operations of other entities of the IEEE that also submit proposals for Standards Publications to the Standards Committee, i. e., the Technical Committees from the AIEE structure and the Professional Technical Groups evolved from the Professional Groups of IRE. Twenty-four Standards were completed during 1963 and six Standards are in process.

- 3.1 Twenty-one special conferences, symposia, and other meetings were sponsored by the Committees. In addition, there were five jointly-sponsored meetings with other engineering societies.

4. The Joint Technical Advisory Committee (JTAC). The Joint Technical Advisory Committee held a total of four meetings during July 1, 1962 to December 31, 1962 (the first half of its fiscal year 1962/63) while under the sponsorship of IRE and EIA. During the calendar year 1963, under the sponsorship of IEEE and EIA, JTAC held five meetings. The Fifteenth Anniversary Dinner was held in May 1963 at the Waldorf-Astoria Hotel, New York City.

Seriously concerned with the many increasing demands on the spectrum, and in the light of the many rapid technical changes which have taken place in the last decade, JTAC decided to revise its 1952 publication "Radio Spectrum Conservation." With the full support and encouragement of its sponsors, JTAC set up a Subcommittee (62.1) for this purpose under the chairmanship of Mr. Philip F. Siling. Work is progressing rapidly and the new edition will be published in 1964.

The FCC, in November 1962, advised the JTAC that it planned to continue and expand its study of man-made noise and inquired as to JTAC's plans in this area. JTAC has endeavored since 1961 to stimulate the interest of engineers in the increasing technical and economic problems of electromagnetic compatibility. JTAC members and the secretary have conferred with representatives of federal agencies and industry to determine the extent of interest and various activities in interference control and reduction. These activities included two classified presentations, one by the Chief Signal Officer at the Pentagon and the other by the Tri-Service Electromagnetic Compatibility Center at Annapolis. In November 1963, JTAC established a Subcommittee (63.1), under the chairmanship of Mr. Richard P. Gifford, to explore the neglected areas and to encourage educational and remedial studies in the EMC/RFI area. Dr. Jerome B. Wiesner, Acting Special Assistant to the President for Telecommunications, in December 1963, indicated interest in this area and suggested that JTAC consider becoming a focal point for professional study of the needed technical programs and objectives. The resultant data will define the seriousness of electromagnetic interference as a national problem.

On July 24, 1963, the FCC adopted Docket 15130 in the Matter of Reliability and Related Design Parameters of Microwave Radio Relay Communication Systems and Resultant Impact upon Spectrum Utilization. In this Docket the FCC referred to an earlier JTAC report submitted by request in which JTAC recommended FCC adoption of a policy permitting the use of frequency diversity in all cases except where local interference would result. JTAC also recommended that a carrier frequency separation of at least 5 to 10 per cent should be maintained to obtain full benefits. The Docket further stated that, although JTAC provided the Commission with pertinent analysis and commentary on the relative merits of diversity techniques, the Commission still lacked sufficient data to permit a considered judgment on this method of achieving reliability, at the cost of spectrum space. In November 1963, JTAC established Subcommittee 63.2 under the chairmanship of Dr. William H. Radford to submit a report on FCC Docket 15130.

5. The International Radio Consultative Committee (CCIR). The Executive Committee of the U. S. National CCIR held two meetings at which reports were submitted by the Chairman of the U. S. Study Groups. The Executive Committee approved the

United States responses to the studies assigned at the IXth Plenary Assembly prior to submission at the Xth Plenary Assembly which was held in January 1963 in Geneva, Switzerland. At the Xth Plenary Assembly, the United States also submitted proposed new studies. The Extraordinary Administrative Radio Conference to Allocate Frequency Bands for Space Radiocommunication Purposes was held in October 1963 in Geneva. There was individual IEEE representation at both meetings. Lists of material received from the Executive Committee and from Geneva at IEEE during 1963 were distributed quarterly to the Chairmen of the IEEE Professional Technical Groups and the Technical Committees, in addition to the members of JTAC.

6. The International Scientific Radio Union (URSI). The U. S. National Committee of the International Scientific Radio Union (URSI), together with the Boeing Scientific Research Laboratories and the University of Washington, jointly sponsored a Symposium on Signal Statistics. The Symposium was held on December 6 and 7 prior to the URSI/IEEE 1963 Fall Meeting. The 1963 URSI General Assembly was held in Tokyo. Approximately 800 attended the Assembly, at which propagation problems formed the principal topics of discussion. There was individual IEEE representation at the Assembly in Tokyo.

7. IEEE Intersociety Relations Committee. The IEEE Intersociety Relations Committee met four times during 1963.

The members of this Committee for 1963 were:

Mr. Warren H. Chase, Chairman
Mr. E. Finley Carter
Dr. Lloyd V. Berkner
Mr. A. A. Johnson
Mr. T. M. Linville
Dr. Frederick B. Llewellyn
Dr. Ronald L. McFarlan
Mr. Charles F. Savage, Jr.
Mr. J. W. Simpson

The Intersociety Relations Committee's scope and responsibilities are described in IEEE Bylaw 409.8. At its initial meeting in March 1963, the Committee recognized that IEEE is a non-national society. The Intersociety Relations Committee then moved that it recommend to the Executive Committee that its scope be amended by the following addition to the first paragraph:

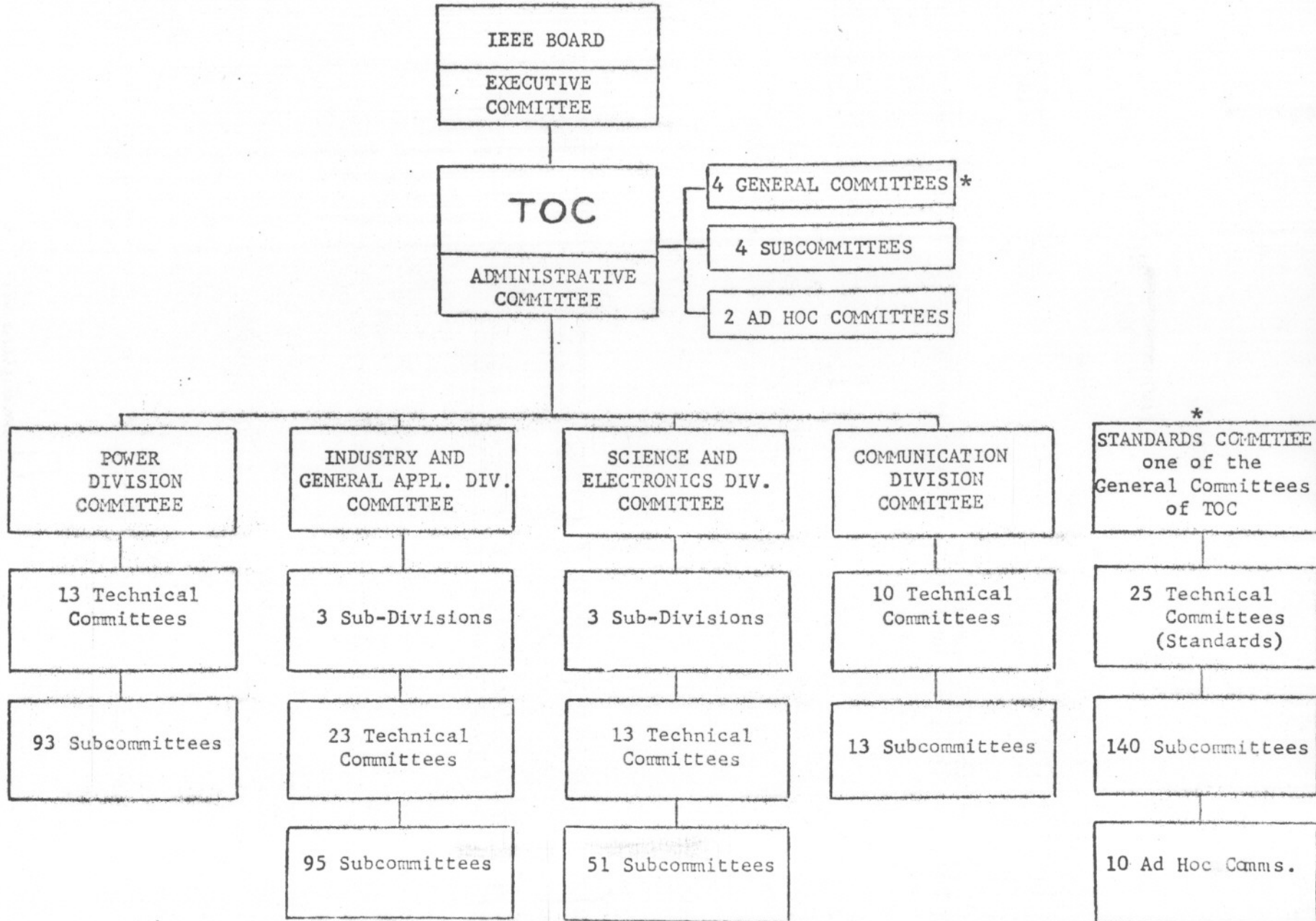
"In accordance with the Constitution and Bylaws which recognize IEEE as a society non-national in scope, the proceedings of this committee shall be organized, with respect to inter-society problems, country by country. Accordingly, this committee may find it desirable from time to time to organize subcommittees to deal with problems of one country or another."

The Intersociety Relations Committee originally existed as an AIEE committee. It was stimulated and its activities and responsibilities were greatly increased in 1963 as the result of the AIEE/IRE merger into IEEE. In every case where IRE or AIEE had appointed an official representative to any other organization, the individual's availability and competence for the particular assignment were carefully reconsidered by the ISRC. This required a large amount of evaluation of personnel in order to accomplish the most effective liaison with other organizations.

At the inception of the IEEE, many long-term appointments were in effect as the result of previous action by the respective appointing agencies of IRE and AIEE. These appointments run until their respective termination dates. The IEEE, on recommendation of the ISRC, appointed representatives to new terms in twenty organizations during 1963.

TECHNICAL OPERATIONS COMMITTEE ORGANIZATION CHART

December 31, 1963



SECTION C

Table I - "Area of Activity Survey; Responses Received as of May 20, 1963 and Revised December 31, 1963.

AI #1 - BASIC SCIENCE & TECHNIQUES

PTG's (Numbers indicate secondary interests)

- G-1 Audio (3)
- G-3 Antennas & Propagation
- G-4 Circuit Theory
- G-5 Nuclear Science
- G-7 Reliability
- G-9 Instrumentation & Measurement (2)
- G-12 Information Theory
- G-15 Electron Devices
- G-17 Microwave Theory & Techniques
- G-18 Bio-Medical Engineering (2)
- G-20 Sonics & Ultrasonics
- G-23 Automatic Control
- G-27 Electromagnetic Compatibility (3)
- G-28 Human Factors in Electronics (3)
- G-29 Geoscience Electronics

TC's (X indicates secondary interests)

- 1-3 Communication Theory (X)
- 2-6 Aerospace Energy Conversion (X)
- 2-9 Flight Vehicle Systems (X)
- 3-4 Feedback Control Systems
- 3-12 Petroleum Industry (X)
- 6-1 Basic Sciences
- 6-2 Computing Devices (X)
- 6-13 Cybernetics (X)
- 6-4 Electrical Techniques in Medicine & Biology (X)
- 6-6 Nonlinear Magnetics'
- 6-7 Nucleonics
- 6-9 Solid State Devices
- 6-15 Systems Science
- 6-14 New Energy Sources

AREA #2 - POWER

PTG's (Numbers indicate secondary interests)

- G-30 Aerospace (2)

TC's (X indicates secondary interests)

- 2-6 Aerospace Energy Conversion
- 2-2 Domestic & Commercial Applications
- 2-9 Flight Vehicle Systems (X)
- 2-5 Production & Application of Light (X)
- 3-6 Industrial & Commercial Power Systems
- 3-12 Petroleum Industry (X)
- 4-7 Special Instrum's & Auxiliary Apparatus
- 5-3 Power System Communications
- 5-9 Power System Engineering
- 5-4 Protective Devices
- 5-6 Rotating Machinery
- 5-7 Substations
- 5-8 Switchgear
- 5-11 Transmission & Distribution

- 6-4 Electrical Techniques in Medicine & Biology (X)
- 5-5 Relays
- 4-7 Power Systems Instrumentation & Measurements
- 5-1 Insulated Conductors

AREA #3 - INDUSTRY & INDUSTRIAL APPLICATIONS

PTG's (Numbers indicate secondary interests)

- G-1 Audio (4)
- G-13 Industrial Electronics & Control Instrumentation
- G-15 Electron Devices (3)
- G-20 Sonics & Ultrasonics (2)
- G-21 Component Parts (2)
- G-23 Automatic Control (2)
- G-30 Aerospace (3)

TC's (X indicates secondary interests)

- 2-6 Aerospace Energy Conversion (X)
- 2-8 Domestic Appliances
- 2-9 Flight Vehicle Systems (X)
- 2-3 Land Transportation
- 2-4 Marine Transportation
- 2-5 Production & Application of Light
- 3-3 Electric Welding
- 3-4 Feedback Control Systems (X)
- 3-5 General Industry Applications
- 3-7 Industrial Control
- 3-6 Industrial & Commercial Power Systems (X)
- 3-12 Petroleum Industry (X)
- 3-17 Pulp & Paper Industry
- 3-13 Rubber & Plastic Industries
- 3-14 Textile Industry
- 6-2 Computing Devices (X)
- 6-4 Electrical Techniques in Medicine & Biology (X)
- 6-8 Semiconductor Rectifiers

AREA #4 - COMMUNICATIONS

PTG's (Numbers indicate secondary interests)

- G-1 Audio
- G-2 Broadcasting
- G-3 Antennas & Propagation (2)
- G-6 Vehicular Communications
- G-8 Broadcast & Television Receivers
- G-10 Space Electronics & Telemetry (2)
- G-11 Aerospace & Navigational Electronics (2)
- G-12 Information Theory (2)
- G-19 Communications Systems
- G-24 Military Electronics (2)
- G-27 Electromagnetic Compatibility

Area #4 - Communications (continued)

TC's (X indicates secondary interests)

- 1-2 Communication Switching
- 1-3 Communication Theory
- 1-4 Data Communication
- 1-5 Radio Communication
- 1-6 Space Communication
- 1-8 Wire Communication
- 2-9 Flight Vehicle Systems (X)
- 2-3 Land Transportation (X)
- 3-12 Petroleum Industry (X)
- 4-8 Telemetry (X)
- 5-7 Substations (X)
- 6-2 Computing Devices (X)
- 6-13 Cybernetics (X)
- 6-4 Electrical Techniques in Medicine & Biology (X)
- 1-7 Telegraph Systems

AREA #5 - ELECTRONIC SYSTEMS

PTG's (Numbers indicate secondary interests)

- G-1 Audio (2)
- G-10 Space Electronics & Telemetry
- G-11 Aerospace & Navigational Electronics
- G-20 Sonics & Ultrasonics (3)
- G-23 Automatic Control (3)
- G-24 Military Electronics
- G-27 Electromagnetic Compatibility (2)
- G-28 Human Factors in Electronics
- G-30 Aerospace

TC's (X indicates secondary interests)

- 1-3 Communication Theory (X)
- 2-6 Aerospace Energy Conversion (X)
- 2-9 Flight Vehicle Systems (X)
- 2-3 Land Transportation (X)
- 2-5 Production & Application of Light (X)
- 3-4 Feedback Control Systems (X)
- 3-12 Petroleum Industry (X)
- 3-13 Rubber & Plastic Industries (X)
- 4-6 Recording & Controlling Instrumentation (X)
- 4-8 Telemetry
- 5-7 Substations (X)
- 6-2 Computing Devices (X)
- 6-13 Cybernetics (X)
- 6-4 Electrical Techniques in Medicine & Biology (X)
- 6-15 Systems Science (X)

AREA #6 - COMPUTERS & DATA PROCESSING

PTG's (Numbers indicate secondary interests)

- G-1 Audio (8)
- G-10 Space Electronics & Telemetry (3)
- G-11 Aerospace & Navigational Electronics (3)
- G-12 Information Theory (3)
- G-13 Industrial Electronics & Control Inst. (2)
- G-16 Electronic Computers
- G-18 Bio-Medical Engineering (3)
- G-20 Sonics & Ultrasonics (4)
- G-23 Automatic Control (4)
- G-28 Human Factors in Electronics (2)

TC's (X indicates secondary interests)

- 1-3 Communication Theory (X)
- 1-8 Wire Communication (X)
- 2-9 Flight Vehicle Systems (X)
- 2-3 Land Transportation (X)
- 3-5 General Industry Applications (X)
- 3-12 Petroleum Industry (X)
- 4-6 Recording & Controlling Inst. (X)
- 5-7 Substations (X)
- 6-2 Computing Devices
- 6-13 Cybernetics (X)
- 6-4 Electrical Techniques in Medicine & Biology (X)
- 6-15 Systems Science (X)

AREA #7 - INSTRUMENTATION

PTG's (Numbers indicate secondary interests)

- G-1 Audio (5)
- G-5 Nuclear Science (2)
- G-9 Instrumentation & Measurement
- G-10 Space Electronics & Telemetry (4)
- G-11 Aerospace & Navigational Electronics (4)
- G-13 Industrial Electronics & Control Inst. (3)
- G-18 Bio-Medical Engineering (4)
- G-30 Aerospace (4)

TC's (X indicates secondary interests)

- 1-3 Communication Theory (X)
- 1-8 Wire Communication (X)
- 2-6 Aerospace Energy Conversion (X)
- 2-9 Flight Vehicle Systems (X)
- 2-5 Production & Application of Light (X)
- 3-3 Electric Welding (X)
- 3-4 Feedback Control Systems (X)
- 3-5 General Industry Applications (X)
- 3-12 Petroleum Industry (X)
- 3-13 Rubber & Plastic Industries (X)
- 4-4 Indicating & Integrating Instruments
- 4-5 Nuclear Instrumentation
- 4-6 Recording & Controlling Instrumentation
- 4-8 Telemetry (X)
- 5-7 Substations (X)
- 6-13 Cybernetics (X)
- 6-4 Electrical Techniques in Medicine & Biology (X)
- 4-3 Fundamental Electrical Standards

AREA #8 - MATERIALS, COMPONENTS AND PRODUCTION PROCESSES

PTG's (numbers indicate secondary interests)

- G-1 Audio (7)
- G-5 Nuclear Science (3)
- G-15 Electron Devices (2)
- G-20 Sonics & Ultrasonics (5)
- G-21 Component Parts
- G-22 Product Engineering & Production

Area #8 - continued

TC's (X indicates secondary interests)

- 2-6 Aerospace Energy Conversion (X)
- 2-2 Domestic & Commercial Applications(X)
- 2-9 Flight Vehicle Systems (X)
- 2-5 Production & Application of Light (X)
- 6-4 Electrical Techniques in
Medicine & Biology (X)
- 6-8 Semiconductor Rectifiers (X)
- 6-9 Solid State Devices (X)

AREA #9 - BIO-MEDICAL ELECTRONICS

PTG's (Numbers indicate secondary interests)

- G-1 Audio (6)
- G-18 Bio-Medical Engineering
- G-20 Sonics & Ultrasonics (6)
- G-23 Automatic Control (5)

TC's (X indicates secondary interests)

- 1-3 Communication Theory (X)
- 2-9 Flight Vehicle Systems (X)
- 6-13 Cybernetics (X)
- 6-4 Electrical Techniques in
Medicine & Biology

AREA #10 - PROFESSIONAL ACTIVITIES

PTG's (Numbers indicate secondary interests)

- G-7 Reliability (2)
- G-14 Engineering Management
- G-21 Component Parts (3)
- G-25 Education
- G-26 Engineering Writing & Speech.

TC's (X indicates secondary interests)

- 1-8 Wire Communication (X)
- 2-9 Flight Vehicle Systems (X)
- 2-5 Production & Application of Light (X)
- 6-4 Electrical Techniques in
Medicine & Biology (X)

SECTION C

Table 2 - Professional Technical Groups

<u>Code</u>	<u>Group</u>
G-1	Audio
G-2	Broadcasting
G-3	Antennas & Propagation
G-4	Circuit Theory
G-5	Nuclear Science
G-6	Vehicular Communications
G-7	Reliability
G-8	Broadcast & Television Receivers
G-9	Instrumentation & Measurement
G-10	Space Electronics & Telemetry
G-11	Aerospace & Navigational Electronics
G-12	Information Theory
G-13	Industrial Electronics & Control Instrumentation
G-14	Engineering Management
G-15	Electron Devices
G-16	Electronic Computers
G-17	Microwave Theory & Techniques
G-18	Bio-Medical Engineering
G-19	Communications Systems
G-20	Sonics & Ultrasonics
G-21	Component Parts
G-22	Product Engineering & Production
G-23	Automatic Control
G-24	Military Electronics
G-25	Education
G-26	Engineering Writing & Speech
G-27	Electromagnetic Compatibility
G-28	Human Factors in Electronics
G-29	Geoscience Electronics
G-30	Aerospace
G-31	Power
G-32	Electrical Insulation

Table 3 - Report on Status of PTG/TOC Mergers

<u>Accomplished to Date</u>	
1.	Feb. PTG on Broadcasting with TOC Broadcasting Committee.
2.	May PTG on Reliability with TOC Subcommittee on Reliability and Quality Control.
3.	June PTG on Electron Devices with TOC Solid State Devices Committee.
4.	Aug. PTG on Industrial Electronics with TOC Recording & Controlling Instruments Comm.
5.	Aug. PTG on Instrumentation & Measurement with TOC Elec. & HF Instruments Comm., Fundamental Elec. Standards Committee., Indicating & Integrating Instruments Comm.
6.	Oct. PTG on Nuclear Science with TOC Nuclear Instrumentation Comm. and Nucleonics Comm.

New PTG's developed from AIEE ITG's and TOC Committees

1. PTG-Aerospace from ITG on Aerospace and TOC Committees on:
Aerospace & Energy Conversation
Aerospace & Support Systems
Aerospace Instrumentation
Flight Vehicle Systems
2. PTG-Power from Power Division TOC.
3. PTG-Electrical Insulation from TOC Elec. Insulation Committee.

Potential Mergers

1. PTG-Aerospace with PTG-ANE.
2. PTG-AC with ITG-AC and TOC Feedback Control Systems Comm. and Industrial Control Comm.
3. PTG-BME with TOC ETMB Comm.
4. PTG-CP with TOC Elec. Transformers Comm.
5. PTG-CP with PTG-PEP.
6. PTG-CS with TOC Communication Division.
7. PTG-EC with TOC Computing Devices Comm.
8. PTG-ED with TOC Electron Tubes Comm.
9. PTG-IECI with TOC T. C 10 Standards Comm. on Industrial Electronics.
10. PTG-NS with TOC Nuclear Techniques Standards Comm.

Potential New Groups

TOC Science and Electronics Division
(Four committees of this division are interested in forming a Group, the name and scope of which have not yet been proposed.)

Table 4 - IEEE Professional Technical Group Membership, December 31, 1963

<u>Code</u>	<u>Group</u>	<u>Student Discount</u>	<u>Student Regular</u>	<u>Other Members</u>	<u>Total</u>
G-1	Audio	348	278	3,682	4,308
G-2	Broadcasting	58	71	1,345	1,474
G-3	Antennas & Propagation	574	19	3,503	4,096
G-4	Circuit Theory	912	188	5,947	7,047
G-5	Nuclear Science	165	65	1,476	1,706
G-6	Vehicular Communications	28	33	1,516	1,577
G-7	Reliability	48	28	2,210	2,286
G-8	Broadcast & Television Receivers	271	38	1,451	1,760
G-9	Instrumentation & Measurement	118	114	3,835	4,067
G-10	Space Electronics & Telemetry	284	195	4,420	4,899
G-11	Aerospace & Navigational Electronics	154	72	3,221	3,447
G-12	Information Theory	193	98	3,609	3,900
G-13	Industrial Electronics & Control Instrumentation	165	76	1,686	1,927
G-14	Engineering Management	158	66	4,623	4,847
G-15	Electron Devices	592	126	4,551	5,269
G-16	Electronic Computers	1,178	163	8,404	9,745
G-17	Microwave Theory & Techniques	404	229	5,238	5,871
G-18	Bio-Medical Engineering	364	91	2,550	3,005
G-19	Communications Systems	326	176	4,330	4,832
G-20	Sonics & Ultrasonics	15	31	910	956
G-21	Component Parts	20	35	1,961	2,016
G-22	Product Engineering & Production	12	29	1,262	1,303
G-23	Automatic Control	376	186	3,910	4,472
G-24	Military Electronics	125	92	4,565	4,782
G-25	Education	27	30	1,018	1,075
G-26	Engineering Writing & Speech	83	63	1,591	1,737
G-27	Electromagnetic Compatibility	2	15	1,362	1,379
G-28	Human Factors in Electronics	20	24	751	795
G-29	Geoscience Electronics	14	20	766	800
G-30	Aerospace	28	8	942	978
G-31	Power	-	-	-	-
G-32	Electrical Insulation	-	-	-	-
	Totals	7,062	2,659	86,635	96,356

Table 5- IEEE Professional Technical Group Affiliates, December 31, 1963

<u>Code</u>	<u>Group</u>	<u>Total</u>
G-1	Audio	5
G-2	Broadcasting	-
G-3	Antennas & Propagation	5
G-4	Circuit Theory	2
G-5	Nuclear Science	95
G-6	Vehicular Communications	1
G-7	Reliability	58
G-8	Broadcast & Television Receivers	8
G-9	Instrumentation & Measurement	3
G-10	Space Electronics & Telemetry	1
G-11	Aerospace & Navigational Electronics	5
G-12	Information Theory	27
G-13	Industrial Electronics & Control Instrumentation	-
G-14	Engineering Management	59
G-15	Electron Devices	10
G-16	Electronic Computers	154
G-17	Microwave Theory & Techniques	6
G-18	Bio-Medical Engineering	286
G-19	Communications Systems	1
G-20	Sonics & Ultrasonics	3
G-21	Component Parts	4
G-22	Product Engineering & Production	7
G-23	Automatic Control	13
G-24	Military Electronics	2
G-25	Education	6
G-26	Engineering Writing & Speech	36
G-27	Electromagnetic Compatibility	9
G-28	Human Factors in Electronics	21
G-29	Geoscience Electronics	5
G-30	Aerospace	1
G-31	Power	-
G-32	Electrical Insulation	-
	Total	833

TABLE 6 - 1963 PROFESSIONAL TECHNICAL GROUP MEMBERSHIP, BY GROUP, BY REGION, BY SECTION

REGION	SECTION	G-1	G-2	G-3	G-4	G-5	G-6	G-7	G-8	G-9	G-10	G-11	G-12	G-13	G-14	G-15	G-16	G-17	G-18	G-19	G-20	G-21	G-22	G-23	G-24	G-25	G-26	G-27	G-28	G-29	G-30	G-31	G-32	Total
1	Berkshire	9	1	2	9	3	-	5	2	5	3	5	4	2	11	5	24	-	5	3	5	12	1	7	7	3	6	10	1	-	-	-	1	151
	Binghamton	12	3	2	28	2	1	43	4	14	9	26	12	13	25	12	104	5	7	5	5	10	4	23	16	3	6	3	2	1	3	-	-	403
	Boston	165	36	245	373	68	44	129	56	242	209	177	277	78	272	325	570	429	176	228	45	92	67	244	234	109	70	46	51	38	43	-	1	5139
	Lynn	6	-	7	14	3	1	8	1	11	8	6	10	5	12	30	18	21	7	6	-	4	4	6	2	-	2	2	-	-	6	-	2	202
	Merrimack Valley	21	3	18	45	6	4	18	6	20	13	9	13	4	31	36	37	65	9	23	3	9	8	10	18	5	7	5	1	1	2	-	-	450
	Buffalo	20	21	22	36	7	7	15	15	19	26	32	35	12	28	26	36	46	24	37	6	12	8	35	36	4	6	9	8	2	2	-	5	597
	Connecticut	45	10	20	60	27	10	15	15	40	27	17	27	23	23	32	64	30	26	29	13	14	14	33	14	10	12	12	4	3	9	-	3	681
	Fairfield County	46	14	20	51	10	10	24	14	35	35	26	29	26	54	45	87	26	23	35	22	15	15	26	28	7	21	13	10	11	1	-	1	780
	New London	11	1	7	9	6	-	-	1	3	2	1	7	4	5	6	9	2	3	5	3	-	1	13	4	1	1	5	1	2	-	-	2	115
	Elmira-Corning	4	5	1	4	2	1	3	9	6	3	2	-	5	3	32	6	11	3	3	1	10	4	6	3	-	2	2	-	1	2	-	-	134
	Ithaca	6	2	15	29	2	2	1	4	7	-	2	24	1	5	18	25	18	4	8	-	-	1	17	2	6	2	1	-	1	3	-	-	206
	Long Island	118	36	149	206	61	37	100	47	137	153	233	142	55	184	152	275	320	84	136	32	79	56	155	271	31	52	43	35	15	30	-	3	3427
	Maine	7	2	3	2	1	3	-	1	4	5	7	2	4	1	5	3	5	2	7	2	1	-	3	5	-	-	-	-	1	-	-	-	76
	Mid-Hudson	24	4	2	34	-	5	9	6	11	6	-	23	5	28	61	241	7	4	14	4	17	7	16	9	4	7	2	4	-	-	-	-	554
	Catskill	8	1	2	6	-	-	1	4	6	4	-	4	3	8	4	55	2	3	10	-	4	-	4	6	1	4	2	2	-	-	-	-	114
	Mohawk Valley	14	7	26	25	5	6	13	4	3	18	19	16	3	42	7	36	33	6	44	2	11	8	11	51	6	13	27	3	2	3	-	-	464
	St. Lawrence International	2	-	1	2	-	-	-	-	2	-	1	1	2	-	-	5	2	-	-	1	-	-	2	1	-	1	-	-	-	-	-	-	23
	New Hampshire	16	4	30	29	1	6	9	6	21	12	12	13	6	17	14	16	39	11	14	4	9	6	7	21	6	6	8	1	1	2	-	-	347
	New York	211	84	148	377	61	38	61	82	117	131	128	179	74	125	166	423	255	184	230	36	58	42	171	140	39	89	62	37	21	23	-	7	3799
	Monmouth	30	3	44	68	13	19	20	8	27	30	10	51	6	45	62	148	63	19	89	4	29	12	21	63	7	16	21	7	2	5	-	-	942
	Westchester	51	25	24	65	16	16	21	23	49	23	42	53	32	65	44	159	55	60	52	12	28	16	29	35	8	21	10	8	11	3	-	-	1056
	North Jersey	145	40	131	340	43	60	86	84	146	137	172	170	87	176	256	322	264	93	300	43	95	58	153	180	35	84	39	41	20	23	2	2	3827
	Princeton	37	8	24	63	16	6	12	20	32	51	16	40	13	28	101	102	57	23	44	6	9	15	38	17	6	18	5	2	6	7	-	3	825
	Providence	8	3	7	15	5	3	7	3	10	7	5	15	9	12	11	13	9	5	8	11	7	7	13	13	6	6	3	5	5	4	-	2	237
	Southeastern Massachusetts	2	-	3	7	2	1	3	-	7	6	3	3	4	10	3	7	2	2	-	3	5	5	4	3	1	3	3	1	1	1	-	-	95
	Rochester	33	3	13	55	6	8	15	11	21	15	12	20	15	26	27	46	27	39	32	9	20	10	18	20	6	9	5	-	-	-	-	-	521
	Schenectady	11	9	19	30	15	5	6	7	18	10	8	15	17	15	42	35	37	11	10	5	7	3	34	10	2	7	6	2	2	5	-	5	408
	Adirondack	2	-	-	2	1	1	2	1	8	2	2	1	4	6	4	1	-	4	4	-	6	2	3	1	2	2	-	-	1	1	-	-	63
	Springfield	3	3	4	9	1	1	-	7	1	-	1	1	2	2	5	13	8	3	-	-	1	1	2	3	3	2	-	2	-	-	-	-	78
	Syracuse	43	19	56	87	12	7	17	30	23	35	29	88	10	75	94	94	83	22	46	12	16	7	34	119	20	20	5	7	6	7	-	-	1123
Vermont	2	1	1	6	-	-	1	1	2	-	1	-	-	1	3	2	2	9	1	1	-	1	2	2	4	-	-	-	-	-	-	-	43	
Worcester	11	4	4	7	-	-	2	5	3	4	1	3	6	4	8	14	7	6	5	2	-	3	6	3	4	1	1	1	1	1	-	-	116	
Totals		1123	352	1050	2093	395	302	646	477	1050	984	1005	1278	530	1339	1636	2990	1930	877	1428	292	580	386	1146	1337	339	496	350	236	155	185	2	37	27,026

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REGION	SECTION	G-1	G-2	G-3	G-4	G-5	G-6	G-7	G-8	G-9	G-10	G-11	G-12	G-13	G-14	G-15	G-16	G-17	G-18	G-19	G-20	G-21	G-22	G-23	G-24	G-25	G-26	G-27	G-28	G-29	G-30	G-31	G-32	Total	
2	Akron	7	7	20	10	1	3	-	-	1	3	12	6	9	8	5	27	13	3	5	-	2	3	19	10	-	1	-	-	-	-	-	-	-	175
	Baltimore	44	15	77	127	14	13	41	13	44	83	69	92	13	88	78	136	124	45	72	10	23	3	61	122	14	17	19	11	11	29	-	1	1509	
	Annapolis	9	1	12	19	1	2	5	4	5	17	8	14	-	18	13	20	23	1	14	3	2	-	13	33	2	9	15	2	1	2	-	-	268	
	Eastern Shore	2	-	1	-	-	-	-	-	1	1	-	1	-	2	1	1	-	1	1	-	-	-	1	3	-	1	-	-	1	-	-	-	18	
	Canton	6	-	-	2	-	3	3	2	1	-	1	2	3	3	3	4	-	2	3	1	1	1	2	-	-	3	1	-	-	1	-	-	48	
	Central Penn.	10	5	27	19	4	6	3	9	9	20	13	22	2	11	8	22	17	11	15	5	3	1	6	21	5	3	6	2	3	2	-	-	290	
	Cincinnati	43	9	13	22	4	9	6	6	12	16	11	8	7	13	15	21	13	9	16	2	5	3	17	13	2	5	3	2	-	3	-	2	310	
	Cleveland	55	24	15	50	21	16	10	11	45	18	6	11	60	30	31	60	22	44	18	15	20	14	57	6	6	8	5	5	-	24	-	1	708	
	Columbus	28	3	78	40	10	12	20	4	27	19	20	25	20	43	40	51	71	21	26	6	6	8	39	28	10	13	7	6	3	13	-	-	697	
	Dayton	34	6	23	38	16	10	48	9	28	39	78	28	15	143	34	86	17	24	25	5	28	9	28	59	8	19	21	10	2	11	-	-	901	
	Delaware Bay	6	1	5	7	3	-	1	-	3	5	3	4	2	6	5	10	5	5	1	-	1	-	5	5	2	2	-	-	-	2	-	5	94	
	Emporium- Ridgway	-	2	-	-	1	1	5	3	1	1	-	-	-	1	10	7	1	1	-	5	11	4	2	3	-	-	-	-	-	3	-	-	62	
	Erie	4	-	1	6	2	-	1	1	3	-	2	1	4	3	3	2	1	3	3	4	1	-	6	1	-	2	-	-	-	8	-	1	63	
	Johnstown	2	2	-	4	1	1	-	3	1	1	1	-	-	1	3	2	1	-	3	-	1	-	-	-	-	1	-	-	-	1	-	-	29	
31	Lehigh Valley	23	5	6	24	5	7	7	6	13	6	6	7	10	9	61	20	24	8	7	9	10	5	8	6	3	4	1	2	2	1	-	-	305	
	Lima	2	1	-	2	1	1	1	-	2	1	-	-	1	3	5	5	-	-	-	-	2	1	2	-	-	-	-	-	-	17	-	-	47	
	No. Central Ohio	4	-	-	7	-	1	2	-	2	1	-	1	4	3	2	6	-	1	8	1	1	2	3	1	-	2	-	1	-	4	-	-	57	
	Ohio Valley	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2
	Scioto	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Philadelphia	171	66	124	299	49	39	116	68	144	235	126	196	50	227	170	557	192	135	221	31	101	131	166	239	37	72	50	30	21	33	1	4	4101	
	Pittsburgh	31	17	11	43	37	19	17	14	37	16	7	22	30	28	69	67	17	20	16	12	10	8	59	11	11	4	11	3	4	5	-	11	667	
	Sharon	4	4	2	4	1	-	1	3	1	1	1	-	3	-	1	7	1	-	2	-	1	1	2	1	2	2	1	1	-	-	-	1	48	
	So. New Jersey	5	1	3	2	1	1	4	-	5	3	16	1	-	8	1	10	-	3	3	-	3	-	-	1	-	5	1	-	1	2	-	-	80	
	Susquehanna	9	6	8	10	6	4	11	10	6	4	7	2	3	12	23	6	13	5	5	3	11	10	6	11	-	8	4	-	-	1	-	-	204	
	Washington	163	91	315	270	72	88	98	56	202	345	190	231	38	300	187	421	266	124	371	29	64	33	119	413	31	87	132	40	53	56	-	4	4889	
	West Virginia	2	4	4	2	3	4	2	-	3	2	2	-	2	1	1	2	3	-	2	2	2	-	3	-	-	2	2	-	2	-	-	-	-	52
	Williamsport	-	-	1	4	-	-	2	-	1	-	2	2	1	3	9	2	8	2	1	-	-	1	-	3	4	-	-	-	-	-	-	-	-	46
	Totals	664	271	746	1011	253	240	404	222	597	837	581	676	277	964	778	1552	832	468	838	144	309	238	624	990	137	270	279	115	104	218	1	30	15,670	

REGION	SECTION	G-1	G-2	G-3	G-4	G-5	G-6	G-7	G-8	G-9	G-10	G-11	G-12	G-13	G-14	G-15	G-16	G-17	G-18	G-19	G-20	G-21	G-22	G-23	G-24	G-25	G-26	G-27	G-28	G-29	G-30	G-31	G-32	Total	
3	Alabama	7	1	9	7	-	-	-	3	3	6	6	-	3	2	7	6	5	6	-	-	1	7	4	6	3	1	-	1	-	-	-	-	97	
	Atlanta	20	16	19	22	4	6	1	7	12	20	12	13	7	14	5	23	18	11	34	2	3	-	9	12	4	5	11	2	3	1	-	-	316	
	Baton Rouge	1	-	4	1	1	1	-	1	4	1	2	1	3	1	1	1	1	1	1	-	-	-	4	2	1	-	-	-	1	-	-	-	34	
	Canaveral	18	2	34	18	7	8	20	3	34	118	34	16	3	38	6	52	20	17	31	1	1	4	14	56	3	15	14	6	1	8	-	-	602	
	Central Virginia	6	-	4	12	5	31	7	1	2	4	3	4	7	13	7	11	8	4	31	1	4	2	8	3	3	4	8	1	-	11	-	-	205	
	Chattanooga	6	2	-	1	-	5	2	3	2	1	1	1	4	1	2	5	3	1	6	1	2	1	4	1	1	2	2	1	-	-	-	-	61	
	East Tennessee	6	4	3	3	7	1	-	1	5	1	1	1	1	3	3	4	1	1	5	-	-	2	4	1	-	2	-	-	-	-	-	-	60	
	Evansville-Owensboro	5	3	5	4	1	2	5	5	4	2	2	-	3	8	9	3	2	3	3	-	2	2	1	1	1	2	-	-	-	-	-	-	78	
	Fla. West Coast	16	11	14	33	6	18	22	1	25	35	41	11	5	33	14	41	55	15	31	5	10	7	23	33	2	12	14	3	4	5	1	1	547	
	Fort Walton	3	-	2	1	1	1	-	1	3	9	4	-	-	3	1	3	1	2	2	-	-	-	-	8	-	1	1	-	-	-	-	-	47	
	Gainesville	2	-	1	8	4	-	3	1	2	5	1	9	-	4	33	12	22	4	1	-	1	1	6	1	4	1	-	-	-	-	-	-	126	
	Hampton Roads	11	5	11	4	3	-	8	1	13	17	11	6	1	6	5	17	10	2	10	2	-	-	5	21	3	7	4	2	-	5	-	-	190	
	Huntsville	17	5	12	22	2	4	12	3	30	49	10	12	6	22	8	37	17	2	11	1	3	2	34	25	1	8	7	2	2	11	-	-	377	
	Muscle Shoals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Jacksonville	-	-	-	1	-	2	-	-	-	-	2	-	-	-	-	1	1	1	1	-	-	-	-	1	-	1	-	-	-	1	-	-	-	12
	Lexington	1	-	1	2	1	1	1	1	2	-	-	1	-	4	2	11	2	5	5	1	4	2	-	1	1	1	-	-	1	-	-	-	51	
	Louisville	4	2	2	5	1	2	1	3	5	1	1	1	4	2	4	1	6	4	2	1	-	-	3	5	3	1	2	2	-	3	-	-	71	
	Memphis	5	1	2	3	-	-	-	1	2	-	-	-	3	4	2	3	3	9	3	-	-	1	2	1	2	-	-	-	-	-	-	-	-	47
	Jackson	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Miami	16	8	3	6	2	8	6	3	9	12	11	1	4	6	2	12	3	13	3	2	3	2	5	3	3	2	6	3	4	2	-	-	163	
	Middle Tenn.	2	-	1	1	-	-	-	-	5	3	1	-	-	2	-	-	-	1	-	1	-	-	1	-	-	-	-	-	-	5	-	-	23	
	Mississippi	3	-	2	4	1	1	-	-	2	3	1	1	-	-	-	8	-	3	2	-	-	-	3	1	1	-	1	-	1	1	-	-	39	
	Mobile	-	-	-	-	1	-	-	-	4	1	-	-	3	3	-	1	1	-	2	-	-	-	1	4	-	1	-	-	-	-	-	-	-	22
	Nashville	8	6	6	6	3	1	1	-	3	7	3	1	2	2	3	6	5	5	3	1	2	1	4	2	1	2	2	-	-	-	-	-	-	86
	New Orleans	9	7	9	10	2	10	4	4	7	15	11	2	4	11	3	9	6	7	8	2	1	1	4	4	3	5	4	-	4	4	-	-	170	
	North Carolina:																																		
	Central No. Carolina	3	-	1	4	-	-	2	-	-	1	-	1	-	-	-	4	1	-	4	-	-	1	3	5	1	-	-	-	-	-	-	-	-	31
	Charlotte	7	3	1	1	1	-	-	-	2	2	1	2	5	3	-	4	2	2	5	-	-	-	-	1	1	1	2	2	-	4	-	-	-	52
	Eastern No. Carolina	3	10	12	12	5	7	8	2	10	3	5	4	2	10	12	12	10	13	12	2	6	2	9	6	5	5	1	1	1	4	-	-	194	
	Northwestern No. Carolina	9	2	3	8	-	-	2	1	2	1	3	1	1	3	1	4	5	12	3	2	-	3	-	15	2	3	-	-	1	1	-	-	-	88
	Western No. Carolina	1	2	-	-	1	1	-	1	2	2	1	-	-	2	-	1	-	1	-	-	1	-	1	2	-	-	-	-	-	1	-	-	-	20
	Oak Ridge	1	-	-	3	19	-	-	-	2	1	-	-	-	1	2	3	1	1	1	-	-	-	1	-	-	-	-	-	-	2	-	-	-	38
	Orlando	12	-	16	21	9	6	5	3	17	37	12	17	9	21	7	32	31	1	23	6	6	5	17	28	-	8	9	1	1	2	-	-	362	
	Palm Beach	3	2	3	5	2	2	3	2	5	2	-	-	2	1	5	16	-	-	1	2	2	-	3	3	2	-	2	-	-	-	-	-	68	
	Panama City	2	1	-	-	1	-	-	1	1	2	-	-	-	1	-	-	-	1	2	-	-	-	1	1	1	1	-	-	-	-	-	-	-	16
	Pensacola	2	2	3	2	-	1	2	1	1	3	1	1	-	2	2	5	3	-	1	2	-	-	2	5	-	1	1	-	-	-	-	-	43	
	Richmond	3	1	4	-	2	4	1	2	3	3	2	-	5	6	1	5	1	2	3	2	1	-	1	2	-	1	1	-	1	-	-	-	57	
	Savannah	-	1	-	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	5
	South Carolina	5	2	6	5	2	5	3	2	5	5	3	5	2	7	4	7	5	4	6	1	6	1	7	18	1	1	2	-	1	1	-	-	122	
	Va. Mountain	5	4	9	12	4	4	2	1	3	5	4	4	4	6	10	14	11	7	6	1	3	3	9	2	5	6	3	1	2	1	-	-	151	
	Totals	222	103	202	247	98	133	121	60	231	377	190	116	93	247	156	375	261	161	268	39	61	44	196	278	61	103	98	27	29	73	1	1	4672	

REGION	SECTION	G-1	G-2	G-3	G-4	G-5	G-6	G-7	G-8	G-9	G-10	G-11	G-12	G-13	G-14	G-15	G-16	G-17	G-18	G-19	G-20	G-21	G-22	G-23	G-24	G-25	G-26	G-27	G-28	G-29	G-30	G-31	G-32	Total	
4	Arrowhead	-	1	-	1	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	7
	Cedar Rapids	19	4	8	29	7	5	9	2	6	16	26	7	1	23	6	25	12	11	18	-	2	1	12	4	4	12	4	3	1	1	-	-	278	
	Central Illinois	17	4	37	48	4	2	3	3	8	8	6	17	6	8	22	52	31	6	10	1	5	3	23	6	16	3	-	-	1	3	-	-	353	
	Central Indiana	45	5	19	55	8	11	12	35	13	13	12	26	12	22	37	47	18	20	30	3	10	11	46	28	11	9	2	2	4	3	-	1	570	
	Central Iowa	5	6	6	10	2	1	-	1	-	3	1	6	-	-	5	15	5	8	4	-	1	-	3	1	1	1	-	-	-	-	-	-	85	
	Chicago	173	25	84	161	63	107	64	142	94	85	61	83	71	224	108	169	105	96	115	32	67	29	83	68	17	70	31	14	6	9	-	4	2460	
	Calumet	2	1	-	1	-	1	-	-	-	-	-	-	2	-	-	1	1	-	2	-	-	-	2	-	-	1	-	-	-	-	-	-	14	
	Fox Valley	20	5	8	21	7	20	15	26	13	11	12	7	9	32	14	16	11	8	26	3	8	6	10	14	-	8	8	-	-	3	-	-	341	
	Fort Wayne	10	2	3	7	-	5	2	7	-	6	4	3	3	8	5	8	4	9	10	1	2	3	8	7	-	2	-	1	1	1	-	1	123	
	Marion	-	-	-	-	-	-	1	1	-	-	-	-	-	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	5	
	Illinois Valley	2	1	1	4	1	-	-	-	1	2	3	1	1	1	-	1	1	2	1	-	-	-	1	-	-	1	-	-	-	-	-	-	25	
	Iowa-Illinois	-	-	1	2	1	1	-	-	1	1	-	1	2	1	3	3	-	-	-	1	1	-	1	-	1	2	-	-	-	-	-	-	23	
	Burlington	2	-	1	3	-	-	-	1	1	-	-	-	-	1	-	-	-	1	-	-	1	-	1	-	-	-	-	-	-	-	-	-	12	
33	Madison	10	4	4	19	3	-	1	3	5	4	3	7	5	3	10	27	7	10	4	1	5	1	19	1	8	1	-	2	2	2	-	-	171	
	Milwaukee	21	10	7	30	8	14	14	9	23	10	13	5	22	19	18	39	10	25	9	4	12	3	40	5	2	6	3	3	-	9	-	-	393	
	Racine-Kenosha	1	-	-	1	-	1	-	1	1	-	1	-	1	1	-	-	1	-	1	1	1	-	3	1	-	-	-	-	-	1	-	-	17	
	Nebraska	10	10	6	13	5	15	3	5	6	10	5	1	8	6	7	20	9	17	11	4	7	3	3	13	2	2	3	-	2	1	-	-	207	
	Northeast Mich.	7	-	2	7	5	3	1	2	10	3	2	1	3	3	4	5	3	8	3	2	3	1	1	1	2	2	-	-	-	-	-	-	3	87
	Northeast Wis.	6	4	2	4	2	2	1	4	4	1	-	3	4	-	2	9	1	-	2	2	-	-	8	2	2	1	-	-	-	1	-	-	67	
	Rock River	5	1	1	9	2	2	3	2	4	1	-	1	10	3	3	8	1	2	2	1	2	1	12	1	-	1	2	1	-	3	-	-	84	
	Siouxland	2	5	2	3	-	1	1	1	-	-	-	-	-	-	-	1	2	1	2	-	-	-	1	-	-	1	1	1	-	-	-	-	25	
	South Bend	27	6	7	20	5	3	2	7	7	11	6	7	7	13	4	8	12	1	9	3	3	2	8	2	3	4	1	1	-	1	-	-	190	
	Southeastern Michigan	55	21	65	118	24	33	17	18	59	49	27	80	27	40	74	183	91	43	45	10	16	11	79	30	32	17	7	10	9	9	-	2	1301	
	Southern Minn.	6	4	1	6	1	5	-	1	3	1	-	3	2	5	3	8	-	16	3	2	-	1	4	-	-	1	-	2	1	-	-	-	79	
	Toledo	12	3	-	5	-	2	-	2	5	6	3	1	9	5	4	3	2	1	7	2	-	1	5	2	-	2	1	-	1	2	-	-	86	
	Twin Cities	47	20	12	90	12	14	19	8	44	24	33	33	17	62	56	203	26	37	37	11	25	12	65	31	9	26	3	5	1	16	-	1	999	
	West Michigan	8	1	2	7	2	3	5	2	2	1	4	1	2	1	2	6	2	5	4	-	1	-	2	2	1	1	-	1	-	1	-	4	73	
	Totals	512	143	279	674	162	251	173	283	311	267	222	294	224	482	388	858	355	327	355	84	173	89	441	219	111	175	66	46	29	66	-	16	8075	

REGION	SECTION	G-1	G-2	G-3	G-4	G-5	G-6	G-7	G-8	G-9	G-10	G-11	G-12	G-13	G-14	G-15	G-16	G-17	G-18	G-19	G-20	G-21	G-22	G-23	G-24	G-25	G-26	G-27	G-28	G-29	G-30	G-31	G-32	Total	
5	Arkansas	6	1	1	2	-	-	1	2	1	2	1	-	2	2	-	1	-	1	3	-	-	-	-	2	-	-	-	-	1	-	-	-	29	
	Northwest Arkansas	1	-	2	2	-	-	-	-	-	-	-	-	-	2	1	2	1	-	-	-	-	1	-	-	1	2	-	1	1	1	-	-	18	
	Beaumont	3	3	-	3	1	2	-	1	1	-	-	-	-	2	-	2	1	-	1	-	-	1	-	-	-	3	-	-	-	-	-	-	24	
	Lake Charles	1	-	-	1	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	6	
	Central Texas	22	10	22	35	5	5	3	5	19	13	12	12	4	2	15	21	12	25	14	4	3	3	11	16	10	5	9	2	21	2	-	-	342	
	Corpus Christi	2	1	1	-	-	1	-	-	1	1	-	1	-	1	1	1	1	2	2	-	-	-	-	-	-	-	-	-	1	-	-	-	17	
	Victoria Pt. Lavaca	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Dallas	72	21	59	130	20	32	38	29	44	65	46	45	19	81	91	85	92	31	76	15	30	13	34	58	10	26	13	6	65	11	-	-	1357	
	Waco	-	-	-	2	-	-	1	1	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	
	Denver	37	18	69	56	15	9	9	12	71	52	20	22	13	33	15	56	60	30	52	4	8	7	30	31	12	16	13	4	10	4	-	-	788	
	El Paso	7	2	12	12	5	6	2	1	16	25	9	6	1	10	5	22	13	4	5	2	3	-	3	12	2	9	4	2	2	3	-	-	205	
	Fort Worth	9	4	9	20	8	5	6	4	14	12	10	8	7	5	11	31	11	4	7	1	2	2	14	12	1	5	7	-	3	5	-	-	237	
	Houston	51	13	9	44	15	18	7	2	56	45	18	24	22	41	17	77	10	37	27	6	13	3	27	11	7	5	2	3	89	5	-	-	704	
	Kansas City	18	13	20	34	10	9	6	11	18	13	20	9	7	18	12	32	23	18	16	6	7	4	18	15	14	12	2	6	3	2	-	-	396	
	Oklahoma City	15	5	10	9	3	5	3	2	12	18	21	7	4	7	7	10	7	4	25	2	7	1	6	16	4	2	1	2	3	2	-	-	220	
	Panhandle	1	1	1	2	-	1	-	-	-	-	-	-	1	-	-	1	-	1	1	1	-	-	1	1	-	-	-	-	-	1	-	-	14	
	St. Louis	23	9	18	46	7	3	15	2	25	35	35	19	8	24	15	58	24	31	15	1	10	7	51	35	9	17	14	3	1	12	-	-	572	
	Eastern Division	3	1	2	3	-	2	3	1	1	-	3	-	1	1	1	2	1	1	2	-	-	1	2	1	1	-	-	-	-	-	-	-	33	
	Shreveport	6	3	1	3	1	6	1	3	3	1	2	1	1	1	1	4	2	2	4	1	1	-	1	3	3	1	1	1	1	1	-	-	60	
	South Plains	5	4	2	8	1	2	-	1	3	2	2	2	1	3	4	3	2	1	5	-	-	-	4	3	1	1	-	-	-	-	-	-	60	
	Permian Basin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Tulsa	11	6	10	19	4	5	4	4	11	11	8	9	7	7	7	21	6	6	11	4	4	3	11	5	5	1	4	-	22	3	-	-	229	
	W. Central Texas	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
	Wichita	7	2	9	6	1	-	1	1	8	5	7	2	-	2	5	6	13	1	2	4	3	1	4	8	-	1	1	3	2	3	-	-	108	
	Totals	300	117	257	437	96	113	100	82	304	300	215	167	98	243	210	437	280	200	270	51	91	47	217	230	80	106	71	33	225	55	-	-	5432	

REGION	SECTION	G-1	G-2	G-3	G-4	G-5	G-6	G-7	G-8	G-9	G-10	G-11	G-12	G-13	G-14	G-15	G-16	G-17	G-18	G-19	G-20	G-21	G-22	G-23	G-24	G-25	G-26	G-27	G-28	G-29	G-30	G-31	G-32	Total	
6	Alamogordo-Holloman	4	-	7	5	2	-	1	1	7	17	5	4	-	9	3	17	1	6	1	-	-	-	12	13	-	5	-	1	-	-	-	-	-	121
	Albuquerque-Los Alamos-Santa Fe	29	4	23	35	54	4	15	4	39	57	7	15	3	19	42	38	31	7	8	5	6	2	12	8	6	12	1	5	2	3	-	-	496	
	Anchorage	5	3	6	2	-	1	2	-	2	5	4	1	1	2	1	2	-	-	5	-	-	-	3	4	1	3	4	1	1	-	-	-	59	
	Boise	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4	
	Buenaventura	8	1	6	12	3	-	9	2	13	17	9	4	1	26	16	18	12	5	6	-	1	2	6	19	1	3	8	2	1	2	-	-	213	
	China Lake	6	3	3	10	-	1	2	2	5	8	-	-	1	5	1	6	5	2	1	1	1	-	5	6	-	1	-	1	-	2	-	-	78	
	Foothill	29	5	40	50	9	7	20	12	43	56	25	37	7	40	28	77	57	19	27	4	12	7	47	65	5	17	9	7	6	11	1	-	779	
	Fort Huachuca	1	1	2	2	-	-	1	-	1	2	3	2	1	4	-	12	-	1	9	-	-	-	1	20	-	2	4	-	-	-	-	-	69	
	Hawaii	8	3	7	11	2	2	1	2	10	9	8	2	1	6	5	8	6	1	13	-	1	-	1	6	4	3	5	-	2	1	-	-	128	
	Idaho	1	-	1	2	11	1	-	-	3	3	-	1	1	-	2	4	-	-	-	1	1	-	1	-	1	1	1	-	1	1	-	-	38	
	Las Vegas	2	-	2	1	12	-	2	2	5	6	1	1	1	4	-	4	3	2	2	1	-	-	2	2	-	-	1	1	-	1	-	-	58	
	Met. Los Angeles	32	10	44	88	13	27	44	11	51	69	42	38	11	42	48	139	64	29	49	7	22	12	72	50	8	23	21	10	8	10	1	1	1066	
	Montana	2	2	2	8	1	3	1	4	2	4	4	5	2	2	4	3	2	3	7	1	3	2	5	4	2	4	3	1	-	1	-	-	87	
	Orange County	70	7	78	196	21	18	70	22	109	210	110	107	37	125	120	413	114	55	83	18	58	28	143	141	8	45	24	33	27	34	-	-	2524	
	Phoenix	18	3	20	63	6	10	18	7	19	41	33	21	11	27	61	115	58	18	26	4	22	9	30	29	6	11	8	3	1	7	-	-	705	
	Portland	21	5	7	23	8	9	6	3	22	7	3	10	7	11	30	23	12	20	21	-	6	4	14	5	10	5	7	4	1	-	-	-	304	
	Richland	-	-	-	2	13	-	1	-	6	1	-	-	2	2	-	4	1	-	1	2	-	-	4	1	-	1	-	-	-	-	-	-	-	41
	Walla Walla	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	3
	Sacramento	8	11	4	8	5	6	4	6	14	7	3	-	5	11	5	9	7	2	10	1	1	2	7	7	4	7	4	-	-	6	-	-	154	
	Reno	2	-	-	1	-	-	-	-	-	-	2	1	-	1	2	1	2	-	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	15
	San Joaquin	1	1	1	-	1	3	-	1	-	-	-	-	4	-	1	-	-	-	2	1	-	1	-	-	1	-	-	-	-	1	-	-	19	
	Shasta	1	1	1	4	1	1	1	1	1	1	-	-	-	1	2	5	3	1	2	1	1	-	1	2	-	1	1	-	-	-	-	-	34	
	San Diego	64	8	52	68	29	7	33	15	73	114	49	43	10	60	52	121	72	49	40	8	13	13	58	77	6	13	8	7	8	20	-	-	1190	
	San Fernando Valley	94	20	123	156	47	26	84	19	113	163	119	72	30	143	113	329	161	64	73	20	56	43	135	156	14	41	44	33	21	40	-	-	2552	
	San Francisco	224	56	251	428	109	75	108	70	247	371	155	225	67	318	517	542	513	155	264	37	92	88	243	249	49	97	64	35	27	48	-	-	5724	
	San Gabriel Valley	46	10	28	67	17	11	26	13	73	90	35	44	31	59	53	132	39	26	28	9	30	12	48	47	6	11	7	7	20	13	1	1	1040	
	Santa Barbara	12	3	12	24	12	1	7	6	11	19	9	9	5	16	16	20	22	5	12	4	7	3	14	23	6	6	2	1	5	2	-	-	294	
	Santa Monica Bay	72	8	71	167	24	20	46	23	78	152	98	103	22	114	126	232	119	51	93	15	51	29	150	119	13	29	34	23	28	-	-	2147		
	Seattle	41	8	82	89	13	10	19	7	48	63	46	43	7	58	33	74	79	28	44	9	10	7	50	54	11	21	33	7	8	41	-	-	1043	
	Tacoma	7	3	2	1	-	2	-	-	1	1	-	2	1	2	3	5	2	1	-	-	-	-	3	5	1	2	2	1	-	2	-	-	49	
	South Bay Harbor	61	9	58	132	14	11	47	13	68	163	77	93	11	95	92	236	88	32	73	7	49	18	115	108	6	22	33	12	8	33	-	2	1791	
	Spokane	1	2	2	5	2	3	-	-	3	2	5	2	2	5	3	8	2	-	4	-	-	-	4	1	1	-	-	-	-	-	-	-	1	58
	Tucson	7	1	17	20	1	8	5	2	8	14	10	12	3	14	10	23	10	8	19	1	2	2	12	20	-	1	15	2	1	2	-	-	250	
	Utah	3	3	8	9	1	3	4	1	16	19	4	3	1	6	8	21	9	6	8	2	1	-	11	13	11	4	1	1	3	6	-	-	186	
	Vandenberg	4	2	5	7	1	1	2	1	7	24	9	-	-	8	2	8	5	2	3	-	-	-	3	5	-	5	3	1	1	7	-	-	116	
	Wenatchee	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2

35

Totals 886 193 968 1696 133 272 519 250 1008 1715 876 900 287 1216 1322 2651 1189 599 935 159 446 284 1212 1259 182 347 351 210 175 328 3 5 23,447

36

REGION	SECTION	G-1	G-2	G-3	G-4	G-5	G-6	G-7	G-8	G-9	G-10	G-11	G-12	G-13	G-14	G-15	G-16	G-17	G-18	G-19	G-20	G-21	G-22	G-23	G-24	G-25	G-26	G-27	G-28	G-29	G-31	G-32	Total	
7	Bay of Quinte	5	2	6	4	3	-	1	-	5	4	4	3	5	5	6	2	5	6	7	-	4	1	4	7	1	2	1	-	1	-	-	1	95
	Hamilton	11	2	1	7	1	2	5	6	3	2	3	3	4	4	3	6	2	6	2	2	4	7	3	-	3	1	-	1	-	-	1	98	
	Kitchener-Waterloo	14	4	4	11	5	-	2	10	1	1	4	3	1	3	7	7	8	1	6	-	4	1	4	1	1	-	1	1	-	-	-	105	
	Guelph	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	
	London	10	3	5	2	4	-	1	5	2	3	3	-	8	-	-	9	3	3	-	1	-	1	3	-	1	-	-	-	4	-	-	71	
	Montreal	56	27	42	51	14	15	18	21	26	24	26	16	21	25	29	40	43	35	54	11	10	16	40	20	15	19	8	3	2	2	-	-	729
	Niagara International	6	-	2	9	1	3	1	2	4	7	6	4	1	2	6	4	6	3	4	1	5	-	2	5	2	-	1	-	-	1	-	-	88
	No. Alberta	15	3	5	4	2	5	-	6	1	2	8	2	2	4	1	7	7	-	9	1	-	-	4	1	2	4	1	-	1	-	-	97	
	Ottawa	18	9	31	32	15	6	10	9	20	31	14	16	7	20	18	34	42	12	41	10	10	4	17	40	6	8	10	6	4	3	-	1	504
	Quebec	7	5	9	8	3	3	3	4	3	4	3	4	4	3	6	3	6	2	6	2	2	2	3	2	2	2	3	3	2	-	2	-	111
	Regina	4	-	3	2	2	2	-	-	2	3	-	1	2	3	1	10	2	4	5	1	-	-	1	2	-	3	-	-	-	1	-	-	54
	St. Maurice	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	1	-	-	1	-	-	-	1	-	1	-	-	-	-	-	-	-	6
	So. Alberta	10	3	2	2	2	4	1	5	3	6	-	-	-	2	-	4	2	3	6	2	1	-	2	-	1	-	1	1	-	-	-	-	63
	Toronto	56	20	28	42	9	26	12	23	27	26	21	14	26	22	24	47	36	38	40	6	18	15	33	14	11	18	11	5	9	5	-	2	684
	Vancouver	15	9	10	9	1	11	-	5	4	10	4	4	6	4	8	19	14	7	18	1	1	-	10	3	1	5	5	-	2	1	-	-	187
	Victoria	2	1	1	2	-	2	-	-	3	1	-	1	2	2	1	3	-	2	2	-	-	1	3	4	-	1	-	-	1	-	-	-	35
	Winnipeg	11	4	5	11	7	5	1	-	6	6	5	5	3	2	5	5	5	5	9	-	3	1	6	4	1	1	2	2	1	-	-	-	121
	Totals	240	92	154	196	70	84	55	96	111	130	101	76	91	101	116	198	185	123	214	38	61	46	140	106	45	66	45	21	28	13	2	5	3049
8	Benelux	29	11	25	45	12	11	13	44	27	20	16	38	21	12	31	54	26	11	35	9	12	4	36	14	6	8	4	5	3	3	-	-	585
	Egypt	2	1	2	7	4	-	-	6	2	3	-	1	-	-	6	2	2	-	2	1	1	-	2	1	-	-	-	-	-	-	-	-	45
	France	17	9	28	42	16	11	25	13	29	29	18	31	28	13	38	52	33	20	28	10	32	12	45	24	9	9	9	8	5	5	-	-	648
	Geneva	14	7	10	31	10	5	14	13	16	17	14	16	19	6	34	28	21	9	19	2	15	5	25	13	2	3	8	2	3	3	-	-	384
	Israel	5	-	4	19	5	3	3	-	8	11	4	5	5	4	9	24	2	10	4	3	5	-	16	9	1	-	2	3	1	-	-	-	165
	Italy	27	9	26	65	25	12	25	23	33	20	18	54	26	17	50	91	42	13	41	11	32	20	46	24	8	9	8	10	6	2	-	-	793
	Norway	1	2	5	11	2	3	5	2	7	3	3	6	3	3	5	12	8	3	5	-	5	4	6	9	-	-	2	1	-	-	-	-	116
	United Kingdom and Eire	40	16	29	70	25	12	21	14	50	25	25	30	32	29	74	64	55	22	47	15	32	18	53	29	15	12	6	6	6	3	-	1	876
	West Germany	6	4	14	23	8	2	8	6	9	8	12	20	6	9	22	30	25	3	10	5	12	3	17	14	1	4	-	1	-	-	-	-	282
	Non-Section	54	20	54	99	31	38	52	37	64	44	27	51	56	34	78	83	64	34	59	16	53	33	57	44	19	16	14	24	4	5	-	-	1264
	Totals	195	79	197	412	138	97	166	158	245	180	137	252	196	127	347	440	278	125	250	72	199	99	303	181	61	61	53	60	28	21	-	1	5158

SECTION C

TABLE 7 - PROFESSIONAL TECHNICAL GROUP CHAPTERS

Established as of December 31st, 1963

Group Code #	Name of Group	No. of Chapters	Section Locations	
G-30	Aerospace	3	Baltimore Denver	Seattle
G-11	Aerospace & Navigational Electronics	9	Akron Baltimore Boston Dayton Florida West Coast	Los Angeles Jt. NY, NJ & LI Oklahoma City Philadelphia
G-3	Antennas & Propagation	25	Akron Albuquerque Baltimore Boston Buffalo Central Pa. Chicago Columbus Dayton Denver Foothill Huntsville Los Angeles	Long Island Montreal Nebraska Orange County Philadelphia San Diego San Francisco Seattle Southeast Michigan Syracuse Toronto Washington, D. C.
G-1	Audio	20	Albuquerque Boston Central Ind. Central Texas Chicago Cincinnati Cleveland Dayton Houston Kitchener-Waterloo Milwaukee	Montreal Nebraska Ottawa Philadelphia St. Louis San Diego San Francisco Twin Cities Washington, D. C.
G-23	Automatic Control	15	Akron Baltimore Boston Chicago Dallas/Ft. Worth Long Island Los Angeles Milwaukee	New York North Jersey Philadelphia Pittsburgh San Francisco Schenectady Twin Cities
G-18	Bio-Medical Engineering	23	Baltimore Boston Buffalo Central Texas Chicago Cleveland Columbus Houston Philadelphia Portland Rochester	Los Angeles Memphis Milwaukee Montreal Nebraska Jt. NY, NJ, LI & Princeton North Carolina San Diego San Francisco Seattle Twin Cities Washington, D. C.

<u>Group Code</u>	<u>Name of Group</u>	<u>No. of Chapters</u>	<u>Section Location</u>	
G-2	Broadcasting	12	Cleveland Florida W. Coast Houston Montreal Nebraska Philadelphia	Pittsburgh St. Louis San Francisco Twin Cities Vancouver Washington, D. C.
G-8	Broadcast & Television Receivers	4	Chicago Cen. Indiana	Nebraska Philadelphia
G-4	Circuit Theory	11	Albuquerque Cedar Rapids Central Texas Chicago Cleveland Houston	Los Angeles Nebraska Philadelphia San Francisco Syracuse
G-19	Communications Systems	19	Baltimore Boston Canaveral Chicago Dallas Denver Florida W. Coast Long Island Mohawk Valley Monmouth	Nebraska North Jersey Oklahoma City Philadelphia San Francisco Seattle Syracuse Toronto Washington, D. C.
G-21	Component Parts	9	Baltimore Chicago Dayton Houston Los Angeles	Nebraska Jt. NY, NJ & LI Philadelphia Washington, D. C.
G-25	Education	1	Utah	
G-27	Electromagnetic Compatibility	12	Canaveral Chicago Dayton Ft. Worth Los Angeles Mohawk Valley	New Orleans Jt. NY, NJ & LI Philadelphia San Francisco Seattle Washington, D. C.
G-15	Electron Devices	12	Albuquerque Boston Los Angeles Jt. NY, NJ, LI Nebraska Philadelphia	Pittsburgh San Francisco Schenectady Southeast. Mich. Syracuse Washington, D. C.
G-16	Electronic Computers	25	Akron Baltimore Binghamton Boston Chicago Dallas/Ft. Worth Dayton Houston Long Island Los Angeles Mohawk Valley Jt. NY & Conn.	Nebraska North Jersey Orange County Philadelphia Phoenix Pittsburgh San Diego San Francisco Southeast. Mich. Syracuse Twin Cities Utah Washington, D. C.

<u>Group Code</u>	<u>Name of Group</u>	<u>No. of Chapters</u>	<u>Section Locations</u>	
G-14	Engineering Management	17	Baltimore Binghamton Boston Buenaventura Chicago Cleveland Dayton Houston Los Angeles	Mohawk Valley Jt. NY, NJ & LI Philadelphia San Francisco Seattle Syracuse Twin Cities Washington, D. C.
G-26	Engineering Writing & Speech	10	Boston Chicago Los Angeles North Jersey Philadelphia	San Francisco Southeast, Mich. Syracuse Twin Cities Washington, D. C.
G-29	Geoscience Electronics	1	Houston	
G-28	Human Factors in Electronics	1	Los Angeles	
G-13	Industrial Electronics & Control Instrumentation	4	Chicago Cleveland	Nebraska Schenectady
G-12	Information Theory	9	Baltimore Boston Buffalo Los Angeles Nebraska	Philadelphia San Francisco Syracuse Washington, D. C.
G-9	Instrumentation & Measurement	12	Atlanta Boston Chicago Houston Idaho Long Island	Los Angeles Miami Philadelphia San Francisco Utah Washington, D. C.
G-17	Microwave Theory & Techniques	28	Albuquerque Baltimore Boston Buffalo Chicago Columbus Denver Florida W. Coast Foothill Huntsville Long Island Los Angeles Montreal Nebraska New York	North Jersey Orange County Orlando Philadelphia San Diego San Francisco Schenectady Seattle Southeast, Michigan Syracuse Tokyo Toronto Washington, D. C.
G-24	Military Electronics	22	Baltimore Boston Buffalo Canaveral Central Indiana Chicago Dayton Fort Walton Jt. Ft. Huachuca, Phoenix, Tucson Long Island Los Angeles	Mohawk Valley Nebraska Ottawa Philadelphia Rochester San Diego San Francisco South Carolina Southeast, Michigan Syracuse Washington, D. C.

<u>Group Code</u>	<u>Name of Group</u>	<u>No. of Chapters</u>	<u>Section Locations</u>
G-5	Nuclear Science	9	Albuquerque (2) Boston Chicago Dayton Idaho Los Angeles Nebraska Washington, D. C.
G-31	Power	12	Akron Baltimore Dayton Foothill Nebraska North Jersey Oklahoma City Phoenix San Diego San Francisco Seattle Syracuse
G-22	Product Engineering & Production	7	Boston Chicago Los Angeles Jt. NY, NJ & LI Philadelphia San Francisco Washington, D. C.
G-7	Reliability	13	Baltimore Binghamton Boston Canaveral Chicago Columbus Florida W. Coast Fort Worth Los Angeles Jt. NY, NJ & LI Philadelphia San Francisco Washington, D. C.
G-10	Space Electronics & Telemetry	14	Albuquerque Boston Canaveral Chicago Dayton Denver Huntsville Los Angeles Orlando Philadelphia San Diego San Francisco Utah Washington, D. C.
G-6	Vehicular Communications	14	Chicago Cleveland Dallas Florida W. Coast Houston Los Angeles Nebraska Jt. NY, NJ & LI Philadelphia San Francisco Southeast. Michigan Toronto Twin Cities Washington, D. C.

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GROUPS

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CHAPTERS

67
SECTIONS

REPORT OF EDITORIAL ACTIVITIES, 1963

General

1963 was a year of maintaining the status quo for the present while making major policy decisions for the future. On the recommendation of the Ad Hoc Committee on Editorial Policy, formed in the fall of 1962, the Board of Directors authorized (1) the establishment of a new publication, called IEEE SPECTRUM, to go to all members except Student members, (2) the continuance of the PROCEEDINGS OF THE IEEE on a paid subscription basis, and (3) the discontinuance of ELECTRICAL ENGINEERING. SPECTRUM is to be general in nature and educational in intent, while PROCEEDINGS is to be a research oriented journal covering all fields served by the IEEE. These changes are to take effect January 1, 1964.

Meanwhile, in 1963 the former publications of the AIEE and the IRE were continued in good health, without interruption and without any significant change in quantity or character. As a result, the IEEE published more than 2,700 papers and 900 letters, for a total of 30,120 editorial pages during the year.

PROCEEDINGS OF THE IEEE

The year was highlighted by the appearance of three special issues on Quantum Electronics, New Energy Sources and an International Issue. The number of papers submitted during the year and their disposition remained about the same as in the past, namely, 287 papers received of which 26% were accepted, 34% were referred to the TRANSACTIONS for publication consideration, and 40% were rejected. The number of letters increased from 400 the previous year to 506.

As a result the PROCEEDINGS carried 2,037 editorial pages and 1,541 pages of advertising and filler during the year, for a total of 3,578 pages.

ELECTRICAL ENGINEERING

Although advertising pages decreased substantially, the editorial content was maintained at about the same level as in previous years. Of the 1,378 pages published, 997 were devoted to technical and editorial matter.

TRANSACTIONS

The title "Transactions," having been used prominently by both predecessor societies, now encompasses a major share of the publication activity of the IEEE. The TRANSACTIONS of the 30 Professional Technical Groups accounted for 106 issues totaling 10,736 pages during the year, while the three Bimonthly Transactions of the Technical Operations Committee produced 18 issues and 3,088 pages. In both cases the page totals showed an increase over the preceding year.

In keeping with prior practice, the Bimonthlies will be available as annual bound volumes in the spring of 1964.

STUDENT JOURNAL

In September 1962 the AIEE EE DIGEST and the IRE STUDENT QUARTERLY were combined into STUDENT JOURNAL AND EE DIGEST as a step toward the merger of the two organizations. Consolidation of the two publications into one was completed in January 1963 with the issuance of the IEEE STUDENT JOURNAL, a bimonthly magazine which goes to all Student members as part of their dues. In 1963 this publication contributed 280 pages of technical and other career information to its 27,000 readers.

Special Publications and Preprints

As in past years, the International Convention, held in New York City in March, produced a 10-part CONVENTION RECORD totaling 1,988 pages. In addition, 10 Special and Technical Conference Publications were issued during the year totaling 1,502 pages. Finally, a total of 624 papers, amounting to 9,452 pages, were individually pre-printed in photo-offset form for 13 meetings and conferences.

SECTION E

Table 1 - IEEE- and Jointly-Sponsored Technical Meetings, 1963

<u>Name of Meeting</u>	<u>Sponsoring Groups</u>	<u>Place</u>	<u>Date</u>
Millimeter & Submillimeter Conf.	Orlando Section	Orlando, Fla.	Jan. 8-10
9th Natl. Symposium on Reliability and Quality Control	PTG-R, ASQC, ASME	San Francisco, Calif.	Jan. 21-24
Winter General Meeting	IEEE	New York, N. Y.	Jan. 27-Feb. 1
Electrical Engineering Exposition	IEEE	New York, N. Y.	Jan. 28-31
4th Winter Conv. on Military Elect.	PTG-MIL, Los Angeles Sec.	Los Angeles, Calif.	Jan. 30-Feb. 1
3rd International Symposium on Quantum Electronics	France Section, SFER-ONR	Paris, France	Feb. 11-15
Intl. Solid State Circuits Conf.	PTG-CT, Univ. of Penna.	Philadelphia, Pa.	Feb. 20-22
Pacific Computer Conference	IEEE	Philadelphia, Pa.	Mar. 15-16
IEEE International Convention	All PTG's	New York, N. Y.	Mar. 25-28
American Power Conference	Ill. Inst. of Tech., et al	Chicago, Ill.	Mar. 26-28
6th Biennial Elec. Heating Conf.	IEEE	Pittsburgh, Pa.	Apr. 9-10
4th Symposium on Engineering Aspects of Magnetohydrodynamics	IEEE, Univ. of Calif., AIAA	Berkeley, Calif.	Apr. 10-11
3rd Symposium on Radiation Damage to Solar Cells (in Space)	PTG-ED, AIAA	Washington, D. C.	Apr. 10-11
Cleveland Electronics Conf.	Cleveland Section	Cleveland, Ohio	Apr. 16-18
Optical Masers Symposium	PIB-IEEE, Am. Optical Soc., Armed Serv.	New York, N. Y.	Apr. 16-18
Intl. Conf. on Nonlinear Magnetics (INTERMAG)	IEEE	Washington, D. C.	Apr. 17-19
Southwestern IEEE Conf. and Elec. Show (SWIEEECO)	Region 5	Dallas, Texas	Apr. 17-19
Rubber & Plastics Conf.	Rubber & Plastic Indus. Comm.	Akron, Ohio	Apr. 22-23
Rural Electrification Conf.	IEEE	Springfield, Ill.	Apr. 22-24
3rd Annual San Diego Symp. for Bio-Medical Engineering	IEEE, et al	San Diego, Calif.	Apr. 22-24
Cement Industry Conf.	IEEE	Cleveland, Ohio	Apr. 23-24
Power Industry Computer Conf.	IEEE	Phoenix, Ariz.	Apr. 24-26
6th Regional Technical Conf.	Region 6	San Diego, Calif.	Apr. 24-26
South East-South Central District Meeting	IEEE	Richmond, Va.	Apr. 24-26
Railroad Conference	IEEE-ASME	Atlanta, Ga.	Apr. 25-26
Electro-Nuclear Conference	IEEE	Richland, Wash.	Apr. 29-May 1

<u>Name of Meeting</u>	<u>Sponsoring Groups</u>	<u>Place</u>	<u>Date</u>
1963 Spring URSI/IEEE Meeting	URSI, PTG-AP, CT, GE IT, I, MTT	Washington, D. C.	Apr. 29-May 2
Great Lakes District Meeting	IEEE	Davenport, Iowa	May 1-3
Colloquium on Communication for Middle Management	PTG-EWS, Michigan State Univ.	East Lansing, Mich.	May 2-3
Southeastern Textile Industry Conf.	IEEE	Atlanta, Ga.	May 2-3
4th National Symposium on Human Factors in Electronics	PTG-HFE	Washington, D. C.	May 2-3
Electronic Components Conf.	PTG-CP	Washington, D. C.	May 7-9
East Central & Allegheny Ohio Valley District Meeting	IEEE	Toledo, Ohio	May 8-10
NAECON (National Aerospace Electronics Conf.)	PTG-ANE, Dayton Sec.. AIAA	Dayton, Ohio	May 13-15
National Appliance Tech. Conf.	IEEE	Chicago, Ill.	May 14-15
North Eastern District	IEEE	Portsmouth, N. H.	May 20-22
National Symposium on Microwave Theory & Techniques	PTG-MTT	Santa Monica, Calif.	May 20-22
National Telemetry Conf.	PTG-SET, AIAA, ISA	Albuquerque, N. M.	May 20-23
AFIPS Spring Jt. Computer Conf.	PTG-EC (IEEE-ACM)	Detroit, Mich.	May 21-23
3rd Intl. Television Symposium	IEEE, et al	Montreaux, Switzerland	May 20-24
7th National Conf. on Product Engineering & Production	PTG-PEP	Boston, Mass.	May 27-28
5th National Radio Frequency Interference Symposium	PTG-RFI	Philadelphia, Pa.	June 4-5
Reliability Training Conf.	PTG-R, ASQC	Santa Fe, N. M.	June 10-14
Summer General Meeting	IEEE	Toronto, Canada	June 16-21
1963 Chicago Spring Conf. on Broadcast & TV Receivers	PTG-BTR, Chicago Sec.	Chicago, Ill.	June 17-18
Jt. Automatic Control Conference	PTG-AC, ISA, ASME, AIChE	Minneapolis, Minn.	June 19-21
9th Annual Pulp & Paper Industry Conf.	IEEE	Boston, Mass.	June 20-21
PTG-AP International Symposium (Antennas & Propagation)	PTG-AP	Boulder, Colo.	July 9-11
Conf. on Data Acquisition & Processing in Med. & Biology	IEEE, Univ. of Rochester, et al	Rochester, N. Y.	July 15-17
5th Intl. Conf. on Medical Elect.	IFME	Liege, Belgium	July 22-26
Intl. Conf. & Exhibit on Aerospace Support	IEEE	Washington, D. C.	Aug. 4-9
WESCON (Western Electronic Show & Conference)	Region 6, WEMA, All	San Francisco, Calif.	Aug. 20-23

<u>Name of Meeting</u>	<u>Sponsoring Groups</u>	<u>Place</u>	<u>Date</u>
Pacific Annual Meeting	IEEE	Spokane, Wash.	Aug. 26-29
2nd Congress, International Federation of Automatic Control	IFAC-AACC	Basle, Switzerland	Aug. 27-Sept. 4
Petroleum Industry Conference	IEEE	St. Louis, Mo.	Sept. 8-11
7th National Convention on Military Electronics	PTG-MIL	Washington, D. C.	Sept. 9-11
11th Annual Joint Engineering Management Conference	PTG-EM, ASME, AIEE, ASCE, et al	Los Angeles, Calif.	Sept. 12-13
5th National Electrical Insulation Conference	IEEE-NEMA	Chicago, Ill.	Sept. 15-19
12th Annual Industrial Electronics	IEEE-ISA	East Lansing, Mich.	Sept. 18-19
11th Annual Conference on Communications (Micro-Electronics)	Cedar Rapids Sec.	Cedar Rapids, Iowa	Sept. 20-21
National Power Conference	IEEE-ASME	Cincinnati, Ohio	Sept. 22-25
International Telemetry Conf.	IEEE-ISA-AIAA-IEE	London, England	Sept. 24-27
Canadian Electronics Conference	Region 7	Toronto, Canada	Sept. 30-Oct. 2
8th National Symposium on Space Electronics	PTG-SET	Miami Beach, Fla.	Oct. 1-3
Middle Atlantic Textile Industry Conference	IEEE	Charlotte, N. C.	Oct. 3-4
13th Annual Broadcast Symposium	PTG-B	Washington, D. C.	Oct. 4-5
9th National Communications Symposium	PTG-CS	Utica, N. Y.	Oct. 7-9
Thermionic Converter Specialist Conference	PTG-ED	Gatlingsburg, Tenn.	Oct. 8-11
International Conference on Electromagnetic Relays	ICER, Tohoku Univ., IEE et al, IEEE	Sendai, Japan	Oct. 8-11
Materials Handling Conference	IEEE-ASME	Ft. Monroe, Va.	Oct. 14-16
East Coast Conference on Aerospace & Navigational Electronics (ECCANE)	PTG-ANE, Baltimore Sec.	Baltimore, Md.	Oct. 21-23
Machine Tools Conference	IEEE	Cincinnati, Ohio	Oct. 28-30
National Electronics Conference	IEEE & others	Chicago, Ill.	Oct. 28-30
Symposium on Adaptive Statistical Inference	Comm. on Discrete System Theory (IEEE)	Chicago, Ill.	Oct. 28-30
10th Annual Meeting PTG-NS International Symposium on Plasma Phenomena & Measurements	PTG-NS	San Diego, Calif.	Oct. 29-31
1963 Electron Devices Meeting	PTG-ED	Washington, D. C.	Oct. 31 - Nov. 1

<u>Name of Meeting</u>	<u>Sponsoring Groups</u>	<u>Place</u>	<u>Date</u>
Western Appliance Technical Conference	IEEE	Los Angeles, Calif.	Nov. 4
NEREM (Northeast Research & Engineering Meeting)	Region 1	Boston, Mass.	Nov. 4-6
Radio Fall Meeting	IEEE-EIA	Rochester, N. Y.	Nov. 11-13
9th Annual Conference on Magnetism and Magnetic Materials	PTG-MTT-IEEE-AIP	Atlantic City, N. J.	Nov. 12-15
Fall Joint Computer Conference	PTG-EC (IEEE-ACM)	Las Vegas, Nev.	Nov. 12-14
16th Annual Conference on Engineering in Medicine and Biology	PTG-BME, ISA	Baltimore, Md.	Nov. 18-20
MAECON Symposium on Measurements & Instrumentation	Kansas City Sec.	Kansas City, Mo.	Nov. 21
Ultrasonics Engineering Symposium	PTG-UE	Washington, D. C.	Dec. 4-6
4th Annual Seminar on Reliability in Space Vehicles	PTG-R, ED and CP	Los Angeles, Calif.	Dec. 6
14th National Conference on Vehicular Communications	PTG-VC	Dallas, Texas	Dec. 5-6
URSI-IEEE Fall Meeting	IEEE-URSI, et al	Seattle, Wash.	Dec. 9-11

SECTION E

Table 2 - IEEE International Convention Statistics

The Convention continues to increase in importance each year and is internationally recognized as one of the largest Conventions of its kind in the world. An exhibition became part of the annual Convention activities in 1930. The growth in Convention activities, from the first Convention held in 1926 through 1963, is indicated in the comparison figures itemized below.

Date	Year	Attendance	Firms Represented	Exhibits	Sq. Ft. Occupied	Papers Presented	Location
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.
June 23-25	1941	353	0	0	0	33	Detroit, Mich.
Jan. 12-14	1942	1,790	*	30**	*	25	New York, N. Y.
June 29-30, July 1	1942	256	0	0	0	23	Cleveland, Ohio
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	1,571	135	13,220'***	88	New York, N. Y.
Mar. 3-6	1947	12,013	2,845	177	20,830'	118	New York, N. Y.
Mar. 22-25	1948	14,459	3,059	180	25,900'	130	New York, N. Y.
Mar. 7-10	1949	15,710	3,427	225	30,700'	144	New York, N. Y.
Mar. 6-9	1950	17,689	4,088	253	33,600'	163	New York, N. Y.
Mar. 19-22	1951	22,919	5,082	277	45,672'	198	New York, N. Y.
Mar. 3-6	1952	28,673	6,306	365	54,246'	211	New York, N. Y.
Mar. 23-26	1953	35,642	7,493	412	63,033'	214	New York, N. Y.
Mar. 22-25	1954	39,302	8,799	605	87,192'	242	New York, N. Y.
Mar. 21-24	1955	42,133	9,504	704	95,782'	248	New York, N. Y.
Mar. 19-22	1956	41,017***	8,851	716	98,684'	277	New York, N. Y.
Mar. 18-21	1957	53,811	11,757	840	105,240'	284	New York, N. Y.
Mar. 24-27	1958	55,811	12,555	950	110,828'	285	New York, N. Y.
Mar. 23-26	1959	60,050	13,509	1,200	114,117'	263	New York, N. Y.
Mar. 21-24	1960	69,760	15,889	1,200	113,597'	261	New York, N. Y.
Mar. 20-23	1961	67,451	15,170	1,237	113,711'	274	New York, N. Y.
Mar. 26-29	1962	74,734	16,246	1,307	116,412'	275	New York, N. Y.
Mar. 25-28	1963	71,337	15,507	970	116,192'	251	New York, N. Y.

* Figures not available

** Estimated

*** Reduction in attendance due to blizzard

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership</u>
Cornell University	Ithaca	1	78
Dayton, University of	Dayton	2	53
*Dayton, University of, Technical Inst.	Dayton	2	12
Delaware, University of	Delaware Bay	2	52
Denver, University of	Denver	5	46
Detroit, University of	Southeastern Michigan	4	30
*DeVry Technical Institute (Illinois)	Chicago	4	411
*DeVry Technical Institute Canada	Toronto	7	13
Drexel Institute of Technology	Philadelphia	2	131
Duke University	North Carolina	3	51
Ecole Polytechnique	Montreal	7	128
*Electronic Technical Institute	San Diego	6	17
Evansville College	Evansville-Owensboro	3	22
Fairleigh Dickinson University	North Jersey	1	106
Fenn College	Cleveland	2	99
Florida, University of	Gainesville	3	141
*Franklin Institute of Boston	Boston	1	36
Fresno State College	San Francisco	6	22
Gannon College	Erie	2	21
*Gaston Technical Institute	North Carolina	3	15
George Washington University	Washington	2	27
Georgia Institute of Technology	Atlanta	3	132
*The Hamilton Institute of Technology	Hamilton	7	14
University of Hartford (Hillyer College)	Connecticut	1	23
University of Hawaii	Hawaii	6	13
*Heald Engineering College	San Francisco	6	38
Hofstra College	Long Island	1	25
Houston, University of (College of Engineering)	Houston	5	70
*Houston, University of (College of Technology)	Houston	5	10
Howard University	Washington	2	60
*Hudson Valley Community College	Schenectady	1	18
Idaho, University of	Spokane	6	44
Illinois Institute of Technology	Chicago	4	85
Illinois, University of, Urbana	Central Illinois	4	163
*Illinois, University of Navy Pier, Chicago	Chicago	4	24
Indiana Technical College	Fort Wayne	4	58
Iowa, State University of	Cedar Rapids	4	75
Iowa, State University of Science & Technology	Central Iowa	4	99
John Carroll University	Cleveland	2	30
The Johns Hopkins University	Baltimore	2	50
Kansas State University of Agriculture & Applied Science	Kansas City	5	113
Kansas, University of	Kansas City	5	34
Kentucky, University of	Lexington	3	98
Lafayette College	Lehigh Valley	2	84
Lamar State College of Technology	Beaumont	5	142
La Salle College	Philadelphia	2	12
Laval University	Quebec	7	51
*Lawrence Institute of Technology	Southeastern Michigan	4	40
Lehigh University	Lehigh Valley	2	86
Long Beach State College	South Bay Harbor	6	22
Los Angeles State College of Applied Art & Sciences	Metropolitan Los Angeles	6	37
Louisiana Polytechnic Institute	Shreveport	5	97
Louisiana State University	Baton Rouge	3	148
Louisville, University of	Louisville	3	36
Lowell Technological Institute	Boston	1	85
Loyola University	Santa Monica Bay	6	28

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership</u>
Maine, University of	Maine	1	62
Manhattan College	New York	1	97
Manitoba, University of	Winnipeg	7	35
Marquette University	Milwaukee	4	158
Maryland, University of	Washington	2	109
Massachusetts Institute of Technology	Boston	1	210
Massachusetts, University of	Springfield	1	105
Merrimack College	Boston	1	37
Miami, University of	Miami	3	59
Michigan College of Mining & Technology	Northeast Wisconsin	4	61
Michigan State University	Southeastern Michigan	4	70
Michigan, University of	Southeastern Michigan	4	110
Milwaukee School of Engineering	Milwaukee	4	110
Minnesota, University of	Twin Cities	4	82
Mississippi State University	Mississippi	3	139
The University of Mississippi	Memphis	3	16
Missouri School of Mines & Metallurgy	St. Louis	5	401
Missouri, University of	St. Louis	5	129
*Mohawk Valley Technical Institute	Mohawk Valley	1	9
Monmouth College	New York	1	33
Montana State College	Montana	6	63
Nebraska University of	Nebraska	4	123
Nevada, University of	Sacramento	6	30
Newark College of Engineering	North Jersey	1	124
New Bedford Institute of Technology	Providence	1	71
New Hampshire, University of	New Hampshire	1	131
*New Mexico Highlands University	Albuquerque	6	27
New Mexico State University	El Paso	5	60
New Mexico, University of	Albuquerque	6	57
*New York City Community College	New York	1	52
New York, City College of	New York	1	113
*New York Institute of Technology	New York	1	65
New York University (Day Division)	New York	1)	134
New York University (Eve. Division)	New York	1)	
*New York State University, at Alfred	Buffalo	1	72
*State University of New York Agricultural & Technical Institute	Mohawk Valley	1	37
North Carolina State College	North Carolina	3	129
North Dakota State College	Twin Cities	4	58
North Dakota, University of	Twin Cities	4	89
Northeastern University	Boston	1	239
Northrop Institute of Technology	L. A. (metropolitan)	6	62
Northwestern University	Chicago	4	69
Norwich University	Vermont	1	26
Notre Dame, University of	South Bend	4	102
Ohio Northern University	Lima	2	42
Ohio State University	Columbus	2	130
**Ohio Technical Institute	Columbus	2	24
Ohio University	Columbus	2	39
Oklahoma State University	Tulsa	5	86
Oklahoma, University of	Oklahoma City	5	89
*Oklahoma City University	Oklahoma City	5	1
*Omaha, Municipal University of	Nebraska	4	27
Oregon State College	Portland	6	165
*Oregon Technical Institute	Portland	6	29
Ottawa, University of	Ottawa	7	31
*Pacific States University	L. A. (metropolitan)	6	31
Pacific, University of	Sacramento	6	10
Pennsylvania, University of	Philadelphia	2	76
**Universita di Padova	Italy	8	49
Pennsylvania State University	Central Pennsylvania	2	182
*Pierce College	San Fernando Valley	6	11
Pittsburgh, University of	Pittsburgh	2	129

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership</u>
*Port Arthur College	Beaumont	5	2
Prairie View A & M College	Houston	5	8
Pratt Institute	New York	1	26
Princeton University	Princeton	1	17
Puerto Rico, University of	----	9	80
Purdue University	Central Indiana	4	312
*Queensborough Community College	New York	1	22
*RCA Institutes, Inc.	New York	1	242
*Radio College of Canada	Toronto	7	16
*Radio Engineering Institute	Nebraska	4	34
Rensselaer Polytechnic Institute	Schenectady	1	104
Rhode Island, University of	Providence	1	43
Rice University	Houston	5	36
*Roanoke Technical Institute	Hampton Roads	3	11
*Rochester Institute of Technology	Rochester	1	74
Rochester, The University of	Rochester	1	27
Rome, University of	Italy	8	54
Rose Polytechnic Institute	Central Indiana	4	67
Royal Military College of Canada	Bay of Quinte	7	8
Rutgers University	Princeton	1	46
*Ryerson Institute of Technology	Toronto	7	72
St. Joseph's College	Philadelphia	2	6
St. Louis University	St. Louis	5	50
San Diego State College	San Diego	6	26
San Francisco State College	San Francisco	6	28
San Jose State College	San Francisco	6	63
Santa Clara, University of	San Francisco	6	110
Saskatchewan, University of	Regina	7	54
Seattle University	Seattle	6	16
*Sinclair College	Dayton	2	4
South Carolina, University of	South Carolina	3	71
South Dakota School of Mines & Technology	Denver	5	73
South Dakota State College of Agriculture & Mechanic Arts	Twin Cities	4	86
*The Southern Alberta Institute of Technology	Southern Alberta	7	76
Southern California, University of	L. A. (metropolitan)	6	35
Southern Methodist University	Dallas	5	35
*Southern Technical Institute	Atlanta	3	10
*Southwest Missouri State College	Kansas City	5	27
Southwestern Louisiana, University of	Baton Rouge	3	87
*Spartan School of Electronics	Tulsa	5	25
**--*Spring Garden Institute	Philadelphia	2	28
Stanford University	San Francisco	6	74
Stevens Institute of Technology	North Jersey	1	72
Swarthmore College	Philadelphia	2	16
Syracuse University	Syracuse	1	29
**--*The Community College and Technical Institute of Temple University	Philadelphia	2	29
Tennessee Agricultural & Industrial State University	Nashville	3	18
Tennessee Polytechnic Institute	Nashville	3	74
Tennessee, University of	East Tennessee	3	124
Texas College of Arts & Industries	Corpus Christi	5	36
Texas, Agricultural & Mechanical College	Houston	5	151
Texas Technological College	South Plains	5	50
Texas Western College	El Paso	5	91
Texas, University of	Central Texas	5	192
Toledo, University of	Toledo	4	39
Toronto, University of	Toronto	7	42
*Tri-State College	Fort Wayne	4	34
Tufts University	Boston	1	6
Tulane University	New Orleans	3	34
Union College	Schenectady	1	93
*Union County Technical Institute	North Jersey	1	58

<u>School</u>	<u>Section Location</u>	<u>Region</u>	<u>Membership</u>
**--*Union Technical Institute	North Jersey	1	20
Universidad Distrital Francisco Jose de Caldas	Colombia	9	42
Universidad Tecnica Federico Santa Maria	Chile	9	6
U. S. Naval Postgraduate School	San Francisco	6	82
Utah State University	Utah	6	46
Utah, University of	Salt Lake City	6	71
*Valparaiso Technical Institute	South Bend	4	206
Valparaiso University	South Bend	4	64
Vanderbilt University	Nashville	3	91
Vermont, University of	Vermont	1	34
Villanova University	Philadelphia	2	84
Virginia Military Institute	Virginia Mountain	3	42
Virginia Polytechnic Institute	Virginia Mountain	3	78
Virginia, University of	Central Virginia	3	50
*Voorhees Technical Institute	New York	1	42
*Ward School of Electronics	Connecticut	1	17
Washington, University of	Seattle	6	126
Washington State University	Spokane	6	54
Washington University	St. Louis	5	49
The University of Waterloo	Kitchener-Waterloo	7	28
Wayne State University	Southeastern Michigan	4	106
*Wentworth Institute	Boston	1	22
Western Michigan University	West Michigan	4	18
*The Western Ontario Institute of Technology	Southeastern Michigan	4	57
Western Ontario, University of	London	7	25
*West Virginia Institute of Technology	West Virginia	2	41
West Virginia University	Pittsburgh	2	73
Wichita, University of	Wichita	5	65
Windsor, University of	Southeastern Michigan	4	13
Wisconsin, University of	Madison	4	220
Worcester Polytechnic Institute	Worcester	1	110
Wyoming, University of	Denver	5	97
Yale University	Connecticut	1	24
Youngstown University	Sharon	2	53

*IEEE Student Associate Branches

**Established in 1963

***Membership as of November 15, 1963