

REPORT OF THE SECRETARY

1978

Part I of the Report of the Secretary for the year 1978 is presented herewith. It contains detailed statistics on:

- IEEE Membership
- Student Branch Membership
- Group/Society Membership and Chapters
- Group/Society Affiliates
- Organizational Units of the IEEE by Region
- Publication of the Institute

Part II of the Report contains annual reports of the Institute's Board and Committee, on file in Headquarters, the contents of which are summarized in the February 1979 issue of THE INSTITUTE.

Respectfully submitted,

Robert D. Briskman
Secretary, 1978



April 1979

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, Inc.
345 East 47th Street, New York, N. Y. 10017

REPORT OF THE SECRETARY
1978

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

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CONTENTS

| <u>SECTION A - IEEE MEMBERSHIP STATISTICS</u> | Page |
|--|------|
| Table 1 - Membership by Region, Grade, Percentage | 1 |
| Table 2 - Membership by Grade, by Percentage; 3-Year Comparison | 1 |
| Table 3 - Membership by Region, by Percentage; 3-Year Comparison | 1 |
| Table 4 - Life Members by Grade; 3-Year Comparison | 2 |
| Table 5 - Women Members by Grade; 3-Year Comparison | 2 |
| Table 6 - Membership by Grade, 1963-1978 | 2 |
| Table 7 - Membership Changes, by Grade; 3-Year Comparison | 3 |
| Table 8 - Membership by Region, by Section and Subsection, by Grade | 4 |
| Table 9 - Membership in Region 8 by Country, by Grade; 3-Year Comparison | 12 |
| Table 10 - Membership in Region 9 by Country, by Grade; 3-Year Comparison | 13 |
| Table 11 - Membership in Region 10 by Country, by Grade; 3-Year Comparison | 14 |
| Table 12 - Section and Subsection Actions | 15 |
| <u>SECTION B - STUDENT BRANCH MEMBERSHIP STATISTICS</u> | |
| Table 1 - Student Branches and Student Branch Membership | 16 |
| <u>SECTION C - GROUP/SOCIETY MEMBERSHIP AND CHAPTER STATISTICS</u> | |
| Table 1 - Group/Society Membership by Group/Society; 3-Year Comparison | 23 |
| Table 2 - Group/Society Membership by Group/Society, Region, Section | 24 |
| Table 3 - Group/Society Chapter Actions | 30 |
| Table 4 - Group/Society Chapters | 31 |
| <u>SECTION D - GROUP/SOCIETY AFFILIATE STATISTICS</u> | |
| Table 1 - Group/Society Affiliates by Group; 5-Year Comparison | 36 |
| <u>SECTION E - ORGANIZATIONAL UNITS OF THE IEEE BY REGION</u> | |
| 37 | |
| <u>SECTION F - PUBLICATION STATISTICS</u> | |
| Table 1 - IEEE Technical Publications Output | 38 |
| Table 2 - IEEE Transactions and Journals | 38 |
| Table 3 - Nonmember Subscriptions to IEEE Periodicals | 39 |
| Table 4 - Microfiche Subscriptions | 40 |

SECTION A

Table 1 - IEEE Membership by Region, Grade, Percentage, as of December 31, 1978

| | <u>H</u> | <u>F</u> | <u>SM</u> | <u>M</u> | <u>A</u> | <u>Subtotal</u> | <u>S</u> | <u>Total Membership</u> | <u>Per-centage</u> |
|------------|----------|--------------|---------------|----------------|--------------|-----------------|---------------|-------------------------|--------------------|
| Region 1 | | 973 | 4,591 | 24,971 | 2,702 | 33,237 | 4,963 | 38,200 | 20 |
| Region 2 | | 517 | 3,788 | 18,443 | 1,276 | 24,024 | 3,450 | 27,474 | 14 |
| Region 3 | | 322 | 2,331 | 11,798 | 961 | 15,412 | 3,310 | 18,722 | 10 |
| Region 4 | | 244 | 2,060 | 12,911 | 1,042 | 16,257 | 3,842 | 20,099 | 11 |
| Region 5 | 1 | 181 | 1,867 | 11,897 | 775 | 14,721 | 3,533 | 18,254 | 10 |
| Region 6 | | 646 | 4,196 | 26,237 | 1,737 | 32,816 | 3,815 | 36,631 | 19 |
| Subtotal | | <u>2,883</u> | <u>18,833</u> | <u>106,257</u> | <u>8,493</u> | <u>136,467</u> | <u>22,913</u> | <u>159,380</u> | <u>84</u> |
| Region 7 | | 74 | 769 | 6,201 | 1,284 | 8,328 | 3,015 | 11,343 | 6 |
| Region 8 | | 194 | 918 | 5,478 | 556 | 7,146 | 1,374 | 8,520 | 4 |
| Region 9 | | 12 | 183 | 2,738 | 277 | 3,210 | 1,052 | 4,262 | 2 |
| Region 10 | | 71 | 528 | 5,106 | 411 | 6,116 | 1,274 | 7,390 | 4 |
| Military* | | 4 | 25 | 374 | 46 | 449 | 6 | 455 | |
| Adjustment | | | | 14 | 1 | 15 | 9 | 24 | |
| Total | 1 | 3,238 | 21,256 | 126,168 | 11,068 | 161,731 | 29,643 | 191,374 | 100 |

* Based on APO and FPO figures

Table 2 - IEEE Membership by Grade; 3-Year Comparison, 1976-1978

| | <u>December 31, 1978</u> | | <u>December 31, 1977</u> | | <u>December 31, 1976</u> | |
|--------------------|--------------------------|-------------------|--------------------------|-------------------|--------------------------|-------------------|
| | <u>Number</u> | <u>% of Total</u> | <u>Number</u> | <u>% of Total</u> | <u>Number</u> | <u>% of Total</u> |
| Honorary (H) | 1 | | 2 | | 2 | |
| Fellow (F) | 3,238 | 2 | 3,087 | 2 | 3,038 | 2 |
| Senior Member (SM) | 21,256 | 11 | 21,207 | 11 | 21,470 | 12 |
| Member (M) | 126,168 | 66 | 122,839 | 67 | 118,507 | 66 |
| Associate (A) | 11,068 | 6 | 10,603 | 6 | 10,239 | 6 |
| Student (S) | <u>29,643</u> | <u>15</u> | <u>25,283</u> | <u>14</u> | <u>25,360</u> | <u>14</u> |
| Total | 191,374 | 100 | 183,021 | 100 | 178,616 | 100 |

Table 3 - IEEE Membership by Region, Percentage; 3-Year Comparison, 1976-1978

| | <u>December 31, 1978</u> | | <u>December 31, 1977</u> | | <u>December 31, 1976</u> | |
|------------|--------------------------|-------------------|--------------------------|-------------------|--------------------------|-------------------|
| | <u>Number</u> | <u>% of Total</u> | <u>Number</u> | <u>% of Total</u> | <u>Number</u> | <u>% of Total</u> |
| Region 1 | 38,200 | 20 | 37,140 | 20 | 37,140 | 21 |
| Region 2 | 27,474 | 14 | 26,892 | 15 | 26,860 | 15 |
| Region 3 | 18,722 | 10 | 17,687 | 10 | 17,050 | 10 |
| Region 4 | 20,099 | 11 | 19,394 | 11 | 18,920 | 11 |
| Region 5 | 18,254 | 10 | 16,918 | 9 | 16,249 | 9 |
| Region 6 | 36,631 | 19 | 34,885 | 19 | 34,096 | 19 |
| Subtotal | <u>159,380</u> | <u>84</u> | <u>152,916</u> | <u>84</u> | <u>150,315</u> | <u>85</u> |
| Region 7 | 11,343 | 6 | 10,814 | 6 | 10,045 | 6 |
| Region 8 | 8,520 | 4 | 8,028 | 4 | 7,652 | 4 |
| Region 9 | 4,262 | 2 | 4,363 | 2 | 4,108 | 2 |
| Region 10 | 7,390 | 4 | 6,449 | 4 | 6,034 | 3 |
| Military | 455 | | 451 | | 462 | |
| Adjustment | 24 | | | | | |
| Total | 191,374 | 100 | 183,021 | 100 | 178,816 | 100 |

SECTION A

Table 4 - IEEE, Life Members by Grade; 3-Year Comparison

| | December 31, 1978 | December 31, 1977 | December 31, 1976 |
|---------------|-------------------|-------------------|-------------------|
| Fellow | 1,429 | 1,392 | 1,281 |
| Senior Member | 3,553 | 3,249 | 3,028 |
| Member | 1,928 | 1,751 | 1,600 |
| Associate | 155 | 125 | 118 |
| Total | 7,065 | 6,517 | 6,027 |

Table 5 - IEEE Women Members by Grade; 3-Year Comparison

| | December 31, 1978 | December 31, 1977 | December 31, 1976 |
|---------------|-------------------|-------------------|-------------------|
| Fellow | 6 | 6 | 5 |
| Senior Member | 66 | 62 | 62 |
| Member | 922 | 975 | 755 |
| Associate | 133 | 135 | 104 |
| Student | 1496 | 1,205 | 724 |
| Total | 2,263 | 2,383 | 1,650 |

Table 6 - IEEE Membership by Grade; 1963 - 1978

| Year | H | F | SM | M | A | S | Total |
|------|---|-------|--------|---------|--------|--------|---------|
| 1963 | 5 | 2,589 | 26,274 | 82,750 | 14,215 | 28,676 | 154,509 |
| 1964 | 5 | 2,598 | 26,182 | 87,435 | 13,682 | 24,076 | 153,978 |
| 1965 | 5 | 2,682 | 26,387 | 87,916 | 12,949 | 24,259 | 154,198 |
| 1966 | 5 | 2,759 | 26,254 | 97,834 | 14,114 | 19,104 | 160,070 |
| 1967 | 4 | 2,817 | 25,411 | 94,746 | 12,991 | 22,248 | 158,217 |
| 1968 | 4 | 2,885 | 25,023 | 97,326 | 13,200 | 23,930 | 162,368 |
| 1969 | 4 | 2,917 | 24,815 | 101,058 | 13,235 | 24,319 | 166,348 |
| 1970 | 4 | 2,951 | 24,229 | 104,053 | 13,138 | 24,684 | 169,059 |
| 1971 | 4 | 3,004 | 23,802 | 105,919 | 12,766 | 20,987 | 166,482 |
| 1972 | 4 | 3,019 | 23,281 | 108,725 | 11,984 | 20,210 | 167,223 |
| 1973 | 4 | 3,017 | 22,561 | 108,854 | 11,210 | 22,169 | 167,815 |
| 1974 | 3 | 3,061 | 22,422 | 115,287 | 10,955 | 21,795 | 173,523 |
| 1975 | 2 | 3,058 | 22,133 | 119,567 | 10,738 | 24,318 | 179,816 |
| 1976 | 2 | 3,038 | 21,470 | 118,507 | 10,239 | 25,360 | 178,616 |
| 1977 | 2 | 3,087 | 21,207 | 122,839 | 10,603 | 25,283 | 183,021 |
| 1978 | 1 | 3,238 | 21,256 | 126,168 | 11,068 | 29,643 | 191,374 |

SECTION A

Table 7 - IEEE Membership Changes, By Grade, During Calendar Year 1978; 3-Year Comparison

| | <u>H</u> | <u>F</u> | <u>SM</u> | <u>M</u> | <u>A</u> | <u>Subtotal</u> | <u>S</u> | <u>Total</u> |
|------------------------------|----------|----------|-----------|----------|----------|-----------------|----------|--------------|
| Active Membership - 12/31/77 | 2 | 3,087 | 21,207 | 122,839 | 10,603 | 157,738 | 25,283 | 183,021 |
| <u>Additions</u> | | | | | | | | |
| Elections | | | 141 | 6,105 | 1,010 | 7,256 | 17,236 | 24,492 |
| Dues Arrears Paid | | 114 | 1,482 | 14,228 | 1,422 | 17,246 | 2,575 | 19,821 |
| Reinstatements | | 4 | 79 | 1,169 | 85 | 1,337 | 327 | 1,664 |
| Transfers to | | 212 | 1,132 | 12,608 | 1,810 | 15,762 | 2,065 | 17,827 |
| Total Additions | | 330 | 2,834 | 34,110 | 4,327 | 41,601 | 22,203 | 63,804 |
| <u>Deletions</u> | | | | | | | | |
| Resignations | | 7 | 100 | 611 | 93 | 811 | 61 | 872 |
| Deceased | 1 | 59 | 161 | 185 | 25 | 431 | 4 | 435 |
| Dues Arrears | | 131 | 1,949 | 25,519 | 3,077 | 30,676 | 5,600 | 36,276 |
| Transfers From | | 85 | 627 | 2,935 | 380 | 4,027 | 13,800 | 17,827 |
| Total Deletions | 1 | 282 | 2,837 | 29,250 | 3,575 | 35,945 | 19,465 | 55,410 |
| <u>Adjustment</u> | | +103 | +52 | -1,531 | -287 | -1,663 | +1,622 | -41 |
| Active Membership - 12/31/78 | 1 | 3,238 | 21,256 | 126,168 | 11,068 | 161,731 | 29,643 | 191,374 |
| Gain/Loss | -1 | +151 | +49 | +3,329 | +465 | +3,993 | +4,360 | +8,353 |

| | <u>December 31, 1978</u> | <u>December 31, 1977</u> | <u>December 31, 1976</u> |
|-------------------|--------------------------|--------------------------|--------------------------|
| <u>Additions</u> | | | |
| Elections | 24,492 | 20,747 | 19,142 |
| Reinstatements | 1,664 | 1,669 | 823 |
| Dues Arrears Paid | 19,821 | 14,529 | 13,619 |
| Total Additions | 45,977 | 36,945 | 33,584 |
| <u>Deletions</u> | | | |
| Resignations | 872 | 988 | 1,651 |
| Deceased | 435 | 487 | 515 |
| Dues Arrears | 36,276 | 31,065 | 32,618 |
| Total Deletions | 37,583 | 32,540 | 34,784 |
| <u>Adjustment</u> | -41 | | |
| Net Gain/Loss | +8,353 | +4,405 | -1,200 |

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1978

REGION 1

| Section | F | SM | M | A | Subtotal | S | Subtotal | Sect Total |
|--------------------|-----|-------|--------|-------|----------|-------|----------|---------------|
| Berkshire | 17 | 81 | 170 | 9 | 277 | 15 | | 292 |
| Binghamton | 3 | 79 | 414 | 54 | 550 | 55 | | 605 |
| Boston | 176 | 673 | 3821 | 287 | 4957 | 659 | 5616 | 7013 |
| Merrimack Valley | 8 | 42 | 179 | 22 | 251 | 31 | 282 | |
| Northshore | 11 | 98 | 884 | 58 | 1051 | 64 | 1115 | |
| Buffalo | 11 | 128 | 515 | 61 | 715 | 175 | | 890 |
| Connecticut | 30 | 175 | 1061 | 112 | 1378 | 263 | 1641 | 3267 |
| Fairfield County | 31 | 189 | 929 | 97 | 1246 | 55 | 1301 | |
| New London | 3 | 27 | 254 | 15 | 299 | 26 | 325 | |
| Ithaca | 12 | 12 | 96 | 6 | 126 | 115 | | 241 |
| Long Island | 62 | 434 | 2518 | 297 | 3311 | 302 | | 3613 |
| Maine | 7 | 45 | 237 | 24 | 313 | 81 | | 394 |
| Mid-Hudson | 10 | 97 | 791 | 56 | 954 | 56 | | 1010 |
| Mohawk Valley | 11 | 53 | 290 | 22 | 376 | 12 | 388 | 527 |
| St. Lawrence Int'l | 1 | 11 | 55 | 7 | 74 | 65 | 139 | |
| New Hampshire | 11 | 107 | 688 | 72 | 878 | 95 | | 973 |
| New Jersey Coast | 77 | 243 | 1340 | 90 | 1750 | 90 | | 1840 |
| New York | 47 | 346 | 2108 | 538 | 3039 | 1102 | 4141 | 5695 |
| Westchester | 47 | 181 | 1019 | 147 | 1394 | 160 | 1554 | |
| North Jersey | 156 | 606 | 3296 | 325 | 4383 | 479 | | 4862 |
| Princeton | 80 | 249 | 1190 | 105 | 1624 | 199 | | 1823 |
| Providence | 20 | 94 | 582 | 57 | 753 | 157 | | 910 |
| Rochester | 8 | 100 | 742 | 75 | 925 | 125 | | 1050 |
| Schenectady | 82 | 271 | 563 | 48 | 964 | 232 | | 1196 |
| Springfield | 4 | 35 | 158 | 20 | 217 | 88 | | 305 |
| Syracuse | 33 | 126 | 514 | 24 | 697 | 85 | | 782 |
| Vermont | 12 | 37 | 233 | 47 | 329 | 81 | | 410 |
| Worcester County | 3 | 52 | 324 | 27 | 406 | 96 | | 502 |
| TOTALS | 973 | 4,591 | 24,971 | 2,702 | 33,237 | 4,963 | | 38,200 |

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1978

REGION 2

| Section | F | SM | M | A | Subtotal | S | Subtotal | Sect Total |
|----------------------|-----|-------|--------|-------|----------|-------|----------|---------------|
| Akron | 7 | 63 | 291 | 17 | 378 | 43 | | 421 |
| Allegheny Mountain | 1 | 14 | 45 | 5 | 65 | 19 | | 84 |
| Baltimore | 29 | 284 | 1249 | 86 | 1648 | 151 | 1799 | 2646 |
| Annapolis | 7 | 95 | 648 | 33 | 783 | 64 | 847 | |
| Canton | 0 | 27 | 130 | 6 | 163 | 33 | | 196 |
| Central Pennsylvania | 6 | 52 | 159 | 5 | 222 | 219 | | 441 |
| Cincinnati | 8 | 79 | 517 | 27 | 631 | 123 | | 754 |
| Cleveland | 33 | 226 | 1023 | 76 | 1358 | 201 | | 1559 |
| Columbus | 16 | 128 | 633 | 83 | 860 | 269 | 1129 | 1174 |
| Zanesville | 0 | 8 | 23 | 8 | 39 | 6 | 45 | |
| Dayton | 12 | 135 | 937 | 85 | 1169 | 121 | | 1290 |
| Delaware Bay | 3 | 45 | 267 | 12 | 327 | 58 | | 385 |
| Eastern Shore | 5 | 21 | 98 | 14 | 138 | 9 | | 147 |
| Erie | 5 | 61 | 158 | 5 | 229 | 28 | | 257 |
| Johnstown | 1 | 23 | 115 | 17 | 156 | 29 | | 185 |
| Lehigh Valley | 23 | 154 | 764 | 64 | 1005 | 229 | | 1234 |
| Lima | 3 | 27 | 55 | 4 | 89 | 39 | | 128 |
| North Central Ohio | 1 | 27 | 63 | 10 | 101 | 7 | | 108 |
| Northern Virginia | 43 | 399 | 2412 | 145 | 2999 | 129 | | 3128 |
| Ohio Valley | 0 | 5 | 80 | 7 | 92 | 4 | | 96 |
| Philadelphia | 107 | 641 | 3213 | 255 | 4216 | 558 | | 4774 |
| Pittsburgh | 75 | 419 | 1491 | 61 | 2046 | 405 | 2451 | 2574 |
| Upper Monongahela | 2 | 8 | 62 | 1 | 73 | 50 | 123 | |
| Sharon | 7 | 46 | 158 | 10 | 221 | 206 | | 427 |
| Southern New Jersey | 3 | 22 | 116 | 11 | 152 | 20 | | 172 |
| Susquehanna | 6 | 70 | 341 | 25 | 442 | 83 | | 525 |
| Washington | 114 | 690 | 3242 | 188 | 4234 | 311 | | 4545 |
| West Virginia | 0 | 19 | 153 | 16 | 188 | 36 | | 224 |
| TOTALS | 517 | 3,788 | 18,443 | 1,276 | 24,024 | 3,450 | | 27,474 |

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1978

REGION 3

| Section | F | SM | M | A | Subtotal | S | Subtotal | Sect Total |
|------------------------|-----|-------|--------|-----|----------|-------|----------|---------------|
| Alabama | 6 | 139 | 526 | 18 | 689 | 194 | | 883 |
| Atlanta | 30 | 171 | 1085 | 112 | 1398 | 487 | 1885 | 1935 |
| Rome | 0 | 16 | 29 | 5 | 50 | 0 | 50 | |
| Baton Rouge | 2 | 20 | 174 | 3 | 199 | 133 | | 332 |
| Broward | 20 | 66 | 355 | 48 | 489 | 19 | | 508 |
| Canaveral | 11 | 75 | 586 | 26 | 698 | 68 | | 766 |
| Central North Carolina | 2 | 24 | 160 | 6 | 192 | 9 | | 201 |
| Central Savannah River | 0 | 7 | 76 | 4 | 87 | 10 | | 97 |
| Central Virginia | 20 | 64 | 291 | 11 | 386 | 79 | | 465 |
| Charlotte | 7 | 95 | 346 | 58 | 506 | 67 | | 573 |
| Chattanooga | 5 | 61 | 204 | 13 | 283 | 19 | | 302 |
| Coastal South Carolina | 3 | 33 | 147 | 12 | 195 | 90 | | 285 |
| Columbia | 2 | 31 | 210 | 13 | 256 | 59 | | 315 |
| Daytona | 5 | 27 | 113 | 5 | 150 | 2 | | 152 |
| Eastern North Carolina | 16 | 81 | 555 | 79 | 731 | 201 | 932 | 965 |
| Lower Cape Fear | 0 | 5 | 25 | 3 | 33 | 0 | 33 | |
| East Tennessee | 5 | 68 | 368 | 15 | 456 | 152 | 608 | 709 |
| Upper East Tennessee | 1 | 11 | 71 | 6 | 89 | 12 | 101 | |
| Evansville-Owensboro | 1 | 28 | 146 | 7 | 182 | 77 | 259 | 332 |
| Paducah | 0 | 1 | 45 | 4 | 50 | 23 | 73 | |
| Florida West Coast | 75 | 237 | 749 | 47 | 1108 | 62 | | 1170 |
| Fort Walton | 0 | 9 | 117 | 4 | 130 | 5 | | 135 |
| Gainesville | 12 | 26 | 96 | 2 | 136 | 99 | | 235 |
| Hampton Roads | 3 | 56 | 380 | 28 | 467 | 74 | | 541 |
| Huntsville | 3 | 52 | 495 | 26 | 576 | 44 | 620 | 680 |
| Muscle Shoals | 0 | 6 | 46 | 2 | 54 | 6 | 60 | |
| Jacksonville | 1 | 39 | 133 | 11 | 184 | 5 | | 189 |
| Lexington | 2 | 16 | 159 | 2 | 179 | 55 | | 234 |
| Louisville | 3 | 51 | 241 | 15 | 310 | 87 | | 397 |
| Memphis | 0 | 41 | 156 | 45 | 242 | 167 | 409 | 481 |
| Jackson | 0 | 4 | 28 | 8 | 40 | 32 | 72 | |
| Miami | 10 | 107 | 517 | 65 | 699 | 76 | | 775 |
| Middle Tennessee | 0 | 22 | 58 | 3 | 83 | 5 | | 88 |
| Mississippi | 0 | 24 | 215 | 10 | 249 | 47 | 296 | 422 |
| NE Mississippi | 1 | 8 | 48 | 1 | 58 | 68 | 126 | |
| Mobile | 0 | 13 | 112 | 13 | 138 | 59 | | 197 |
| Nashville | 3 | 51 | 211 | 10 | 275 | 124 | | 399 |
| New Orleans | 2 | 87 | 524 | 32 | 645 | 104 | | 749 |
| Oak Ridge | 3 | 31 | 110 | 4 | 148 | 22 | | 170 |
| Orlando | 12 | 97 | 481 | 36 | 626 | 53 | | 679 |
| Palm Beach | 24 | 76 | 287 | 40 | 427 | 11 | | 438 |
| Panama City | 4 | 15 | 98 | 9 | 126 | 6 | | 132 |
| Pensacola | 1 | 8 | 65 | 4 | 78 | 13 | | 91 |
| Piedmont | 5 | 29 | 175 | 23 | 232 | 81 | | 313 |
| Richmond | 3 | 49 | 317 | 25 | 394 | 21 | | 415 |
| Savannah | 0 | 17 | 47 | 3 | 67 | 18 | | 85 |
| Virginia Mountain | 7 | 79 | 232 | 9 | 327 | 255 | | 582 |
| Western North Carolina | 10 | 25 | 64 | 6 | 105 | 4 | | 109 |
| Winston-Salem | 2 | 33 | 125 | 30 | 190 | 6 | | 196 |
| TOTALS | 322 | 2,331 | 11,798 | 961 | 15,412 | 3,310 | | 18,722 |

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1978

REGION 4

| Section | F | SM | M | A | Subtotal | S | Subtotal | Sect Total |
|------------------------|------------|--------------|---------------|--------------|---------------|--------------|----------|---------------|
| Arrowhead | 0 | 14 | 114 | 8 | 136 | 8 | | 144 |
| Calumet | 4 | 38 | 302 | 55 | 399 | 162 | | 561 |
| Cedar Rapids | 6 | 48 | 345 | 24 | 423 | 43 | | 466 |
| Central Illinois | 30 | 82 | 347 | 21 | 480 | 327 | | 807 |
| Central Indiana | 21 | 122 | 707 | 70 | 920 | 343 | 1263 | 1375 |
| Bloomington | 3 | 15 | 81 | 7 | 106 | 6 | 112 | |
| Central Iowa | 4 | 37 | 171 | 3 | 215 | 139 | | 354 |
| Chicago | 42 | 241 | 1197 | 103 | 1583 | 388 | 1971 | 5117 |
| Fox Valley | 9 | 161 | 1264 | 91 | 1525 | 77 | 1602 | |
| Northwest | 8 | 185 | 1153 | 90 | 1436 | 108 | 1544 | |
| Fort Wayne | 6 | 65 | 290 | 21 | 382 | 56 | | 438 |
| Illinois Valley | 0 | 25 | 113 | 8 | 146 | 35 | | 181 |
| Iowa-Illinois | 1 | 41 | 164 | 14 | 220 | 25 | | 245 |
| Madison | 7 | 37 | 208 | 12 | 264 | 161 | | 425 |
| Michiana | 2 | 28 | 177 | 32 | 239 | 89 | | 328 |
| Milwaukee | 22 | 161 | 841 | 51 | 1075 | 287 | 1362 | 1492 |
| Racine-Kenosha | 4 | 12 | 57 | 20 | 93 | 37 | 130 | |
| Nebraska | 3 | 76 | 411 | 75 | 565 | 150 | | 715 |
| Northeast Michigan | 2 | 26 | 178 | 17 | 223 | 35 | | 258 |
| Northeastern Wisconsin | 1 | 21 | 176 | 12 | 210 | 30 | 240 | 427 |
| Upper Peninsula | 0 | 15 | 68 | 11 | 94 | 93 | 187 | |
| Rock River Valley | 0 | 12 | 168 | 14 | 194 | 46 | | 240 |
| Siouxland | 0 | 15 | 71 | 9 | 95 | 26 | | 121 |
| Southeastern Michigan | 40 | 281 | 1994 | 151 | 2466 | 663 | | 3129 |
| Southern Minnesota | 0 | 7 | 205 | 6 | 218 | 19 | | 237 |
| Toledo | 2 | 52 | 233 | 25 | 312 | 92 | | 404 |
| Twin Cities | 25 | 170 | 1439 | 63 | 1697 | 226 | 1923 | 2174 |
| Red River Valley | 0 | 9 | 136 | 2 | 147 | 104 | 251 | |
| West Michigan | 2 | 51 | 233 | 23 | 309 | 24 | 333 | 461 |
| Kalamazoo-Battle Creek | 0 | 13 | 68 | 4 | 85 | 43 | 128 | |
| TOTALS | 244 | 2,060 | 12,911 | 1,042 | 16,257 | 3,842 | | 20,099 |

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1978

REGION 5

| Section | H | F | SM | M | A | Subtotal | S | Subtotal | Sect Total |
|--------------------|----------|------------|--------------|---------------|------------|---------------|--------------|----------|---------------|
| Arkansas | | 3 | 43 | 247 | 13 | 306 | 39 | | 345 |
| Beaumont | | 1 | 22 | 158 | 7 | 188 | 68 | | 256 |
| Central Texas | | 24 | 103 | 841 | 41 | 1009 | 373 | | 1382 |
| Corpus Christi | | 1 | 23 | 146 | 42 | 212 | 95 | | 307 |
| Dallas | 1 | 33 | 217 | 2125 | 87 | 2462 | 141 | | 2603 |
| Denver | | 38 | 299 | 1682 | 96 | 2115 | 443 | 2558 | 2682 |
| Black Hills | | 0 | 7 | 48 | 0 | 55 | 69 | 124 | |
| El Paso | | 2 | 40 | 237 | 21 | 300 | 109 | | 409 |
| Fort Worth | | 3 | 86 | 517 | 27 | 633 | 97 | | 730 |
| Houston | | 11 | 180 | 1522 | 96 | 1809 | 558 | 2367 | 3106 |
| Clear Lake | | 2 | 56 | 503 | 27 | 588 | 95 | 683 | |
| Freeport | | 0 | 8 | 44 | 0 | 52 | 4 | 56 | |
| Kansas City | | 11 | 190 | 706 | 103 | 1010 | 286 | | 1296 |
| Lafayette | | 0 | 2 | 91 | 4 | 97 | 71 | | 168 |
| Oklahoma City | | 6 | 89 | 299 | 20 | 414 | 78 | | 492 |
| Ozark | | 2 | 25 | 76 | 3 | 106 | 78 | | 184 |
| Panhandle | | 1 | 23 | 88 | 14 | 126 | 5 | | 131 |
| Permian Basin | | 0 | 3 | 56 | 5 | 64 | 6 | | 70 |
| Pikes Peak | | 1 | 24 | 220 | 11 | 256 | 68 | | 324 |
| Saint Louis | | 30 | 225 | 1346 | 82 | 1683 | 514 | | 2197 |
| Shreveport | | 2 | 44 | 162 | 14 | 222 | 112 | 334 | 391 |
| Monroe | | 0 | 2 | 34 | 2 | 38 | 19 | 57 | |
| South Plains | | 2 | 18 | 101 | 4 | 125 | 62 | | 187 |
| Tulsa | | 5 | 84 | 343 | 42 | 474 | 83 | | 557 |
| West Central Texas | | 1 | 12 | 56 | 3 | 72 | 4 | | 76 |
| Wichita | | 2 | 42 | 249 | 11 | 304 | 56 | | 360 |
| TOTALS | 1 | 181 | 1,867 | 11,897 | 775 | 14,721 | 3,533 | | 18,254 |

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1978

REGION 6

| Section | F | SM | M | A | Subtotal | S | Subtotal | Sect Total |
|---------------------|------------|--------------|---------------|--------------|---------------|--------------|----------|---------------|
| Alamogordo-Holloman | 1 | 11 | 30 | 3 | 45 | 7 | | 52 |
| Alaska | 0 | 9 | 136 | 21 | 166 | 8 | 174 | 232 |
| Interior Alaska | 0 | 4 | 25 | 2 | 31 | 27 | 58 | |
| Albuquerque | 18 | 93 | 515 | 31 | 657 | 80 | | 737 |
| Boise | 1 | 24 | 115 | 8 | 148 | 9 | | 157 |
| Buenaventura | 5 | 67 | 556 | 35 | 663 | 19 | | 682 |
| China Lake | 0 | 12 | 166 | 11 | 189 | 8 | | 197 |
| Foothill | 8 | 116 | 745 | 61 | 930 | 100 | | 1030 |
| Eastern Montana | 0 | 3 | 50 | 1 | 54 | 10 | | 64 |
| Fort Huachuca | 0 | 14 | 86 | 5 | 105 | 3 | | 108 |
| Hawaii | 9 | 28 | 428 | 28 | 493 | 47 | | 540 |
| Idaho | 1 | 14 | 84 | 6 | 105 | 4 | | 109 |
| Las Vegas | 2 | 16 | 114 | 10 | 142 | 4 | | 146 |
| Los Alamos | 1 | 41 | 137 | 3 | 182 | 8 | | 190 |
| Met. Los Angeles | 31 | 114 | 599 | 42 | 786 | 164 | | 950 |
| Montana | 0 | 17 | 97 | 2 | 116 | 41 | | 157 |
| Oakland-East Bay | 50 | 216 | 1313 | 73 | 1652 | 335 | | 1987 |
| Orange County | 17 | 249 | 2072 | 119 | 2457 | 159 | 2616 | 3551 |
| Saddleback | 25 | 121 | 681 | 52 | 879 | 56 | 935 | |
| Phoenix | 25 | 239 | 1290 | 79 | 1633 | 158 | | 1791 |
| Portland | 28 | 177 | 1024 | 55 | 1284 | 117 | 1401 | 1776 |
| Eugene | 6 | 30 | 185 | 24 | 245 | 130 | 375 | |
| Richland | 3 | 36 | 169 | 5 | 213 | 9 | | 222 |
| Sacramento | 4 | 76 | 424 | 25 | 529 | 193 | 722 | 1010 |
| Reno | 5 | 24 | 91 | 3 | 123 | 39 | 162 | |
| San Joaquin | 2 | 9 | 76 | 6 | 93 | 33 | 126 | |
| San Diego | 27 | 251 | 1392 | 96 | 1766 | 96 | | 1862 |
| San Fernando Valley | 20 | 265 | 1309 | 120 | 1714 | 138 | | 1852 |
| San Francisco | 21 | 191 | 982 | 87 | 1281 | 137 | | 1418 |
| San Gabriel Valley | 26 | 130 | 561 | 43 | 760 | 86 | | 846 |
| Santa Barbara | 13 | 71 | 365 | 25 | 474 | 125 | | 599 |
| Santa Clara Valley | 171 | 701 | 5278 | 310 | 6460 | 474 | | 6934 |
| Santa Monica Bay | 55 | 195 | 1016 | 84 | 1350 | 203 | | 1553 |
| Seattle | 24 | 235 | 1674 | 118 | 2051 | 178 | | 2229 |
| South Bay Harbor | 16 | 207 | 1407 | 81 | 1711 | 125 | | 1836 |
| Spokane | 4 | 38 | 181 | 4 | 227 | 139 | | 366 |
| Tucson | 17 | 90 | 301 | 20 | 428 | 94 | | 522 |
| Utah | 10 | 46 | 443 | 29 | 528 | 238 | | 766 |
| Vandenberg | 0 | 8 | 93 | 8 | 109 | 12 | | 121 |
| Wenatchee | 0 | 8 | 27 | 2 | 37 | 2 | | 39 |
| TOTALS | 646 | 4,196 | 26,237 | 1,737 | 32,816 | 3,815 | | 36,631 |

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1978

REGION 7

| Section | F | SM | M | A | Subtotal | S | Subtotal | Sect Total |
|-----------------------|----|-----|-------|-------|----------|-------|----------|---------------|
| Bay Quinte | 1 | 36 | 156 | 18 | 211 | 111 | | 322 |
| Canadian Atlantic | 0 | 14 | 120 | 21 | 155 | 39 | | 194 |
| Hamilton | 2 | 46 | 270 | 133 | 451 | 208 | | 659 |
| Kitchener-Waterloo | 1 | 27 | 205 | 71 | 304 | 129 | | 433 |
| London | 2 | 18 | 128 | 77 | 225 | 144 | | 369 |
| Montreal | 17 | 154 | 1119 | 112 | 1402 | 445 | | 1847 |
| New Brunswick | 0 | 13 | 117 | 6 | 136 | 83 | | 219 |
| Newfoundland-Labrador | 0 | 4 | 38 | 3 | 45 | 43 | | 88 |
| Northern Canada | 0 | 13 | 230 | 46 | 289 | 63 | | 352 |
| Ottawa | 15 | 112 | 986 | 114 | 1227 | 331 | | 1558 |
| Quebec | 1 | 9 | 133 | 15 | 158 | 76 | | 234 |
| Saint Maurice | 0 | 1 | 28 | 3 | 32 | 12 | | 44 |
| Saskatchewan | 1 | 7 | 128 | 22 | 158 | 173 | | 331 |
| Southern Alberta | 1 | 15 | 251 | 60 | 327 | 121 | | 448 |
| Toronto | 26 | 159 | 1487 | 379 | 2051 | 576 | | 2627 |
| Vancouver | 5 | 81 | 515 | 109 | 710 | 174 | | 884 |
| Victoria | 1 | 16 | 63 | 15 | 95 | 9 | | 104 |
| Winnipeg | 1 | 44 | 227 | 80 | 352 | 278 | | 630 |
| TOTALS | 74 | 769 | 6,201 | 1,284 | 8,328 | 3,015 | | 11,343 |

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1978

REGION 8

| Section | F | SM | M | A | Subtotal | S | Subtotal | Sect Total |
|----------------------|-----|-----|-------|-----|----------|-------|----------|---------------|
| Benelux | 17 | 96 | 532 | 47 | 692 | 240 | | 932 |
| Denmark | 1 | 17 | 169 | 19 | 206 | 39 | | 245 |
| Egypt | 5 | 17 | 70 | 6 | 98 | 22 | | 120 |
| Finland | 0 | 5 | 102 | 8 | 115 | 106 | | 221 |
| France | 30 | 83 | 449 | 55 | 617 | 33 | | 650 |
| Germany(West) | 25 | 82 | 410 | 61 | 578 | 32 | | 610 |
| Greece | 2 | 14 | 149 | 16 | 181 | 74 | | 255 |
| Iran | 0 | 16 | 147 | 12 | 175 | 5 | | 180 |
| Israel | 11 | 38 | 252 | 25 | 326 | 48 | | 374 |
| Middle & South Italy | 3 | 21 | 151 | 23 | 198 | 21 | | 219 |
| North Italy | 11 | 19 | 397 | 48 | 475 | 126 | | 601 |
| Norway | 3 | 24 | 101 | 6 | 134 | 1 | | 135 |
| Poland | 2 | 34 | 4 | 3 | 43 | 1 | | 44 |
| Spain | 0 | 17 | 252 | 22 | 291 | 124 | | 415 |
| Sweden | 8 | 56 | 267 | 30 | 361 | 147 | | 508 |
| Switzerland | 17 | 69 | 508 | 38 | 632 | 107 | | 739 |
| U.K. & Rep. of Ire. | 55 | 220 | 878 | 84 | 1237 | 180 | | 1417 |
| Yugoslav | 0 | 7 | 85 | 4 | 96 | 10 | | 106 |
| OTHER COUNTRIES | 4 | 83 | 555 | 49 | 691 | 58 | | 749 |
| TOTALS | 194 | 918 | 5,478 | 556 | 7,146 | 1,374 | | 8,520 |

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1978

REGION 9

| Section | F | SM | M | A | Subtotal | S | Subtotal | Sect Total |
|-------------------|----|-----|-------|-----|----------|-------|----------|---------------|
| Argentina | 3 | 20 | 124 | 18 | 165 | 96 | | 261 |
| Bahia | 0 | 1 | 117 | 5 | 123 | 21 | | 144 |
| Bolivia | 0 | 0 | 23 | 0 | 23 | 0 | | 23 |
| Brazilia | 0 | 1 | 16 | 3 | 20 | 2 | | 22 |
| Central America | 0 | 0 | 4 | 0 | 4 | 2 | 6 | 306 |
| Costa Rica | 0 | 4 | 43 | 2 | 49 | 4 | 53 | |
| El Salvador | 0 | 7 | 48 | 6 | 61 | 8 | 69 | |
| Guatemala | 0 | 1 | 55 | 2 | 58 | 26 | 84 | |
| Honduras | 0 | 0 | 36 | 6 | 42 | 3 | 45 | |
| Nicaragua | 0 | 4 | 41 | 1 | 46 | 3 | 49 | |
| Chile | 0 | 5 | 75 | 19 | 99 | 71 | | 170 |
| Colombia | 0 | 11 | 130 | 21 | 162 | 208 | | 370 |
| Ecuador | 0 | 3 | 46 | 14 | 63 | 56 | | 119 |
| Jamaica | 0 | 3 | 31 | 9 | 43 | 0 | | 43 |
| Mexico | 4 | 28 | 369 | 35 | 436 | 80 | 516 | 537 |
| Guadalajara | 1 | 3 | 12 | 1 | 17 | 4 | 21 | |
| Monterrey | 0 | 3 | 100 | 2 | 105 | 119 | | 224 |
| Panama | 0 | 1 | 70 | 5 | 76 | 18 | | 94 |
| Peru | 0 | 4 | 70 | 6 | 80 | 59 | 139 | 148 |
| La Oroya | 0 | 0 | 9 | 0 | 9 | 0 | 9 | |
| P.R. & Virgin Is. | 0 | 21 | 257 | 24 | 302 | 64 | | 366 |
| Rio de Janeiro | 3 | 22 | 242 | 21 | 288 | 19 | | 307 |
| Sao Paulo | 0 | 11 | 378 | 33 | 422 | 139 | | 561 |
| Venezuelan | 0 | 16 | 305 | 19 | 340 | 42 | | 382 |
| OTHER COUNTRIES | 1 | 14 | 137 | 25 | 177 | 8 | | 185 |
| TOTALS | 12 | 183 | 2,738 | 277 | 3,210 | 1,052 | | 4,262 |

SECTION A

TABLE 8 - IEEE Membership by Region, by Section and Subsection, by Grade
December 31, 1978

REGION 10

| Section | F | SM | M | A | Subtotal | S | Subtotal | Sect Total |
|-------------------|----|-----|-------|-----|----------|-------|----------|---------------|
| Australian | 1 | 56 | 609 | 33 | 699 | 121 | 820 | 1042 |
| Victorian | 1 | 11 | 167 | 12 | 191 | 31 | 222 | |
| Bangalore | 0 | 24 | 72 | 5 | 101 | 36 | 137 | 199 |
| Kerala | 0 | 5 | 48 | 3 | 56 | 6 | 62 | |
| Bombay | 4 | 62 | 179 | 26 | 271 | 111 | | 382 |
| Calcutta | 0 | 14 | 67 | 6 | 87 | 17 | | 104 |
| Delhi | 1 | 23 | 112 | 5 | 141 | 44 | 185 | 247 |
| Uttar Pradesh | 0 | 6 | 34 | 1 | 41 | 21 | 62 | |
| HongKong | 0 | 18 | 765 | 79 | 862 | 314 | | 1176 |
| Korea | 0 | 4 | 117 | 3 | 124 | 113 | | 237 |
| Madras | 1 | 16 | 78 | 19 | 114 | 128 | | 242 |
| Malaysia | 0 | 3 | 74 | 6 | 83 | 2 | | 85 |
| New Zealand | 0 | 10 | 104 | 9 | 123 | 34 | | 157 |
| Nigeria | 0 | 3 | 119 | 13 | 135 | 1 | | 136 |
| Pakistan | 0 | 13 | 74 | 5 | 92 | 5 | | 97 |
| Philippines | 0 | 5 | 54 | 4 | 63 | 7 | | 70 |
| Republic of China | 0 | 6 | 158 | 1 | 165 | 55 | | 220 |
| Singapore | 0 | 1 | 151 | 34 | 186 | 16 | | 202 |
| South Africa | 0 | 16 | 66 | 6 | 88 | 2 | | 90 |
| Thailand | 0 | 5 | 46 | 6 | 57 | 0 | | 57 |
| Tokyo | 63 | 202 | 1878 | 115 | 2258 | 201 | | 2459 |
| APD & FPO | 4 | 25 | 374 | 46 | 449 | 6 | | 455 |
| OTHER COUNTRIES | 0 | 25 | 134 | 20 | 179 | 9 | | 188 |
| TOTALS | 75 | 553 | 5,480 | 457 | 6,565 | 1,280 | | 7,845 |

SECTION A

TABLE 9 - IEEE Membership in Region 8, by Country, by Grade

December 31, 1978 - 3-Year Comparison

| Country | F | SM | M | A | S | 12/31/78 Total | 12/31/77 Total | 12/31/76 Total |
|--------------------------------------|-----|-----|-------|-----|-------|-------------------|-------------------|-------------------|
| Algeria | 1 | 2 | 4 | | 1 | 8 | 10 | 10 |
| Austria | 1 | 10 | 35 | 5 | 4 | 55 | 55 | 52 |
| Bahrein | | 2 | 9 | | | 11 | 8 | 5 |
| Bulgaria | | 1 | 1 | 1 | 1 | 4 | 2 | 2 |
| Chad | | | | | | | | 1 |
| Cyprus | | 3 | 18 | 1 | | 22 | 17 | 15 |
| Czechoslovakia | | | | | | | 15 | 22 |
| Denmark | | | 1 | | | 1 | | |
| Ethiopa | | | 3 | | | 3 | 5 | 3 |
| France | | | 1 | | | 1 | | |
| Germany, E. & E. Berlin | | | 1 | | | 1 | 1 | |
| Germany, F. R. & W. Berlin | | | | | | | | |
| Gibraltar | | | 2 | | | 2 | 2 | 2 |
| Greece | | | 1 | | | 1 | | |
| Hungary | | 10 | 1 | | | 11 | 10 | 13 |
| Iceland | | | 13 | 1 | 3 | 17 | 11 | 10 |
| Iraq | | 3 | 25 | 3 | 4 | 35 | 29 | 33 |
| Jordon | | 1 | 20 | | 2 | 23 | 18 | 17 |
| Kuwait | | 5 | 44 | 4 | 1 | 54 | 44 | 35 |
| Lebanon | | 1 | 6 | | 1 | 8 | 5 | 5 |
| Liechtenstein | | | 1 | | | 1 | 1 | |
| Mali | | | 1 | | | 1 | 1 | 1 |
| Malta | | | 7 | | | 7 | 5 | 5 |
| Morocco | | 1 | 6 | | | 7 | 7 | 7 |
| Muscat | | | 1 | | | 1 | 3 | 2 |
| Netherlands | | 1 | | | | 1 | | |
| Portugal | | | 44 | 2 | 12 | 58 | 54 | 26 |
| Qatar | | 1 | 13 | | 1 | 15 | 11 | 10 |
| Rumania | | 2 | 8 | 1 | 3 | 14 | 12 | 6 |
| Saudi Arabia | | 17 | 156 | 9 | 1 | 183 | 119 | 102 |
| S. P. Libyan Arab Jamahira | | 2 | 26 | 5 | | 33 | 37 | 37 |
| Sudan | | | 6 | 1 | | 7 | 5 | 2 |
| Switzerland | | | 3 | | | 3 | | |
| Syria | | | 13 | 4 | | 17 | 14 | 9 |
| Trucial Oman | | | 28 | 6 | | 34 | 23 | 13 |
| Tunisia | | 3 | 2 | 1 | | 6 | 1 | |
| Turkey | | 5 | 52 | 4 | 23 | 84 | 100 | 110 |
| U.S.S.R. | 2 | 13 | 3 | 1 | 1 | 20 | 23 | 23 |
| TOTALS | 4 | 83 | 555 | 49 | 58 | 749 | 648 | 578 |
| Members Assigned to IEEE Sections | 190 | 835 | 4,923 | 507 | 1,316 | 7,771 | 7,380 | 7,074 |
| TOTAL, REGION 8 | 194 | 918 | 5,478 | 556 | 1,374 | 8,520 | 8,028 | 7,652 |

SECTION A

TABLE 10 - IEEE Membership in Region 9, by Country, by Grade

December 31, 1978 - 3 Year Comparison

| Country | F | SM | M | A | S | 12/31/78 Total | 12/31/77 Total | 12/31/76 Total |
|--------------------------------------|----|-----|-------|-----|-------|-------------------|-------------------|-------------------|
| Argentina | | | 1 | | | 1 | | |
| Bahamas & Bermuda | | 7 | 18 | 6 | | 31 | 32 | 31 |
| Belize | | | 2 | | | 2 | | |
| Bolivia | | | | | | | | 38 |
| Brazil * | | 2 | 50 | 3 | 2 | 57 | 63 | 38 |
| Cuba | | 2 | 1 | | | 3 | 4 | 4 |
| Dominican Republic | | | 13 | 1 | | 14 | 12 | 12 |
| Guyana | | 1 | 5 | 1 | | 7 | 9 | 7 |
| Haiti | | 1 | 24 | 6 | | 31 | | |
| Jamaica | | | | | | | | 44 |
| Leeward Islands | | 1 | 1 | | | 2 | 2 | 3 |
| Netherlands Antilles | | | 1 | 1 | 1 | 3 | 4 | 2 |
| Paraguay | | | 3 | 1 | 3 | 7 | 5 | 3 |
| Surinam | | | 1 | | | 1 | 1 | 4 |
| Trinidad & Tobago | | | | | 1 | 1 | 25 | 23 |
| Uruguay | | | 8 | 3 | 1 | 12 | 8 | 6 |
| Windward Islands | 1 | | 9 | 3 | | 13 | 10 | 12 |
| TOTALS | 1 | 14 | 137 | 25 | 8 | 185 | 175 | 227 |
| Members Assigned to IEEE Sections | 11 | 169 | 2,601 | 252 | 1,044 | 4,077 | 4,184 | 3,879 |
| TOTAL, REGION 9 | 12 | 183 | 2,738 | 277 | 1,052 | 4,262 | 4,359 | 4,106 |

*Areas not assigned to Sections.

SECTION A

TABLE 11 - IEEE Membership in Region 10, by Country, by Grade
December 31, 1978 - 3-Year Comparison

| Country | F | SM | M | A | S | 12/31/78 Total | 12/31/77 Total | 12/31/76 Total |
|--------------------------------------|----|-----|-------|-----|-------|-------------------|-------------------|-------------------|
| Afghanistan | | | 1 | | | 1 | 2 | 3 |
| Africa | | | | | | | | |
| Angola | | | | | | | 1 | |
| Basutoland | | | | | | | 4 | 4 |
| Botswana | | 1 | 3 | | | 4 | 2 | 3 |
| Cameroon | | | 1 | | | 1 | | 1 |
| Dahomey | | | | | | | | |
| Ghana | | 1 | 3 | 1 | | 5 | 7 | |
| Kenya | | 2 | 18 | 4 | 2 | 26 | 25 | 26 |
| Liberia | | | 2 | | | 2 | 3 | 6 |
| Malawi | | | 4 | | | 4 | 4 | 4 |
| Nigeria | | | 2 | | | 2 | 133 | 106 |
| Rhodesia | | 1 | 4 | 1 | | 6 | 8 | 6 |
| Senegal | | | 1 | | | 1 | | |
| Sierra Leone | | | 1 | | | 1 | 2 | 2 |
| South Africa | | | | | | | | 77 |
| Swaziland | | 1 | | | | 1 | 3 | 1 |
| Tanzania | | | 4 | 1 | 1 | 6 | 3 | 3 |
| Uganda | | | 4 | 1 | | 5 | 2 | 3 |
| Zaire | | | 1 | 1 | | 2 | 1 | 2 |
| Zambia | | 4 | 21 | 2 | | 27 | 35 | 27 |
| Bangladesh | | 2 | 7 | 1 | | 10 | 9 | 12 |
| Brunei | | 1 | 2 | | 1 | 4 | 3 | 1 |
| Burma | | | 2 | | | 2 | 2 | 3 |
| Caroline Islands | | | | | | | 1 | 2 |
| China, People's Republic of | | | 1 | 1 | | 2 | 1 | |
| China, Republic of | | | 1 | | 1 | 2 | | |
| Fiji Islands | | 1 | 2 | | | 3 | 2 | 3 |
| Goa | | | | | | | | 2 |
| Guam | | 1 | 6 | 2 | | 9 | 12 | 10 |
| India | | | 1 | | 1 | 2 | | |
| Indonesia | | 2 | 23 | 3 | 1 | 29 | 31 | 25 |
| Macao | | | 1 | | | 1 | 1 | 1 |
| Malaysia | | | 1 | | 1 | 2 | 80 | 69 |
| Mariana Islands | | 1 | | | | 1 | 1 | 1 |
| Marshall Islands | | | 1 | | | 1 | 1 | 1 |
| Mauritius | | | 7 | 2 | | 9 | 11 | 10 |
| Nepal | | 1 | 3 | | | 4 | 2 | |
| Samoa | | | | | | | 1 | 2 |
| Singapore | | | 1 | | | 1 | | 151 |
| South Korea | | | | | | | | |
| Sri Lanka | | 5 | 5 | | 1 | 11 | 9 | 12 |
| Thailand | | | | | | | | 49 |
| Togo | | | | | | | 1 | |
| Tonga | | | | | | | | |
| Vietnam, North & South | — | 1 | — | — | — | 1 | 1 | 7 |
| Totals | | 25 | 134 | 20 | 9 | 188 | 404 | 635 |
| Members Assigned to IEEE Sections | 71 | 503 | 4,972 | 391 | 1,265 | 7,202 | 6,044 | 5,392 |
| Military* | 4 | 25 | 374 | 46 | 6 | 455 | 451 | 462 |
| TOTAL, REGION 10 | 75 | 553 | 5,480 | 457 | 1,280 | 7,845 | 6,899 | 6,489 |

* Based on APO and FPO figures

SECTION A

TABLE 12 -IEEE SECTION AND SUBSECTION ACTIONS IN 1978

SECTION/SUBSECTION ACTIONS

REGION 5

Pikes Peak Section: established May 22, 1978; formerly a subsection of the Denver Section.

Victoria-Port Lavaca Subsection: dissolved August 25, 1977; formerly a subsection of Corpus Christi.

REGION 7

Newfoundland-Labrador Section: established August 25, 1978; formerly a Subsection of the Canadian-Atlantic Section.

REGION 10

Nigeria Section: established January 12, 1978.

Madras Section: established April 28, 1978.

Malaysia Section: established May 22, 1978.

Karachi Subsection of the Pakistan Section: established May 22, 1978.

Calcutta Section: established September 28, 1978; formerly the Eastern Zone Subsection of the Delhi Section.

SECTION B

Table 1 - IEEE Student Branches and Student Branch Membership, 1978
Membership as of December 31, 1978

The total number of Student Branches is now 429, operating as follows:

- IEEE Four-Year Student Branches
- IEEE Less Than Four-Year Student Branches*

| <u>SCHOOL</u> | <u>SECTION LOCATION</u> | <u>REGION</u> | <u>Membership 1978</u> |
|---|-------------------------|---------------|----------------------------|
| Broome Community College* | Binghamton | 01 | 14 |
| Boston University | Boston | 01 | 67 |
| Franklin Institute of Boston* | Boston | 01 | 41 |
| Massachusetts Institute of Technology | Boston | 01 | 329 |
| Northeastern University | Boston | 01 | 118 |
| Tufts University | Boston | 01 | 39 |
| Wentworth Institute* | Boston | 01 | 60 |
| Lowell, University Of | Boston | 01 | 97 |
| Merrimack College | Boston | 01 | 9 |
| New York Agricultural and Technical College Sta | Buffalo | 01 | 50 |
| New York At Buffalo, State University Of* | Buffalo | 01 | 95 |
| New York College at Buffalo State University Of | Buffalo | 01 | 44 |
| Bridgeport, University Of | Connecticut | 01 | 23 |
| Connecticut, University Of | Connecticut | 01 | 71 |
| Hartford University Of | Connecticut | 01 | 56 |
| New Haven, University Of | Connecticut | 01 | 27 |
| Ward Technical College* | Connecticut | 01 | 13 |
| Yale University | Connecticut | 01 | 27 |
| United States Coast Guard Academy | Connecticut | 01 | 12 |
| Cornell University | Ithaca | 01 | 140 |
| Hofstra University | Long Island | 01 | 16 |
| New York at Stony Brook, State University Of | Long Island | 01 | 121 |
| Polytechnic Institute of New York-LI Center | Long Island | 01 | 50 |
| Maine, University Of | Maine | 01 | 79 |
| Clarkson College of Technology | Mohawk Valley | 01 | 85 |
| New York Agricultural and Technical College* Sta | Mohawk Valley | 01 | 40 |
| New Hampshire University Of | New Hampshire | 01 | 67 |
| New Hampshire Vocational-Technical College at Con* | New Hampshire | 01 | 12 |
| Aeronautics Academy Of* | New York | 01 | 42 |
| Bronx Community College - Day Division* | New York | 01 | 31 |
| Bronx Community College - Evening Division* | New York | 01 | 15 |
| City College of New York | New York | 01 | 206 |
| Columbia University | New York | 01 | 76 |
| Cooper Union | New York | 01 | 34 |
| Manhattan College | New York | 01 | 150 |
| New York City Community College of Applied Arts and Science* | New York | 01 | 37 |
| New York Institute of Technology | New York | 01 | 63 |
| Polytechnic Institute of New York | New York | 01 | 294 |
| Pratt Institute | New York | 01 | 48 |
| Queensborough Community College* | New York | 01 | 34 |
| Staten Island, College Of-Sunnyside Campus | New York | 01 | 47 |
| Staten Island, College Of-St. George Campus* | New York | 01 | 5 |
| Technical Career Institute* | New York | 01 | 164 |
| Westchester Community College* | New York | 01 | 38 |
| Fairleigh Dickinson University - Day Division | North Jersey | 01 | 36 |
| Morris, County College Of* | North Jersey | 01 | 29 |
| New Jersey Institute of Technology | North Jersey | 01 | 231 |
| Stevens Institute of Technology | North Jersey | 01 | 83 |
| Union County Technical Institute* | North Jersey | 01 | 0 |
| Middlesex County College* | Princeton | 01 | 23 |
| Princeton University | Princeton | 01 | 36 |
| Rutgers University | Princeton | 01 | 122 |
| Trenton State College | Princeton | 01 | 45 |
| Brown University | Providence | 01 | 25 |
| Rhode Island, University Of | Providence | 01 | 38 |
| Southeastern Massachusetts University | Providence | 01 | 83 |

| <u>SCHOOL</u> | <u>SECTION LOCATION</u> | <u>REGION</u> | <u>MEMBERSHIP 1978</u> |
|--|-------------------------|---------------|----------------------------|
| Rochester, University Of | Rochester | 01 | 117 |
| University of Rochester | Rochester | 01 | 40 |
| Hudson Valley Community College | Schenectady | 01 | 22 |
| Rensselaer Polytechnic Institute | Schenectady | 01 | 221 |
| Union College | Schenectady | 01 | 34 |
| Massachusetts University of | Springfield | 01 | 79 |
| Western New England College | Springfield | 01 | 27 |
| Syracuse University | Syracuse | 01 | 78 |
| Norwich University | Vermont | 01 | 27 |
| Vermont Technical College* | Vermont | 01 | 45 |
| Vermont University Of | Vermont | 01 | 22 |
| Worcester Polytechnic Institute | Worcester | 01 | 87 |
| Monmouth College | New Jersey Coast | 01 | 21 |
| Akron University Of | Akron | 02 | 46 |
| John Hopkins University | Baltimore | 02 | 94 |
| Anne Arundel Community College* | Baltimore | 02 | 18 |
| United States Naval Academy | Washington | 02 | 20 |
| Bucknell University | Central Pennsylvania | 02 | 18 |
| Pennsylvania State University | Central Pennsylvania | 02 | 391 |
| Cincinnati University Of | Cincinnati | 02 | 110 |
| Case Western Reserve University | Cleveland | 02 | 105 |
| Cleveland State University | Cleveland | 02 | 50 |
| John Carroll University | Cleveland | 02 | 11 |
| Franklin University* | Columbus | 02 | 11 |
| Ohio Institute of Technology* | Columbus | 02 | 52 |
| Ohio State University | Columbus | 02 | 166 |
| Ohio University | Columbus | 02 | 62 |
| Dayton University Of | Dayton | 02 | 35 |
| Dayton, University Of-Technical Institute* | Dayton | 02 | 13 |
| Sinclair College* | Dayton | 02 | 21 |
| United States Air Force Institute Of Technology | Dayton | 02 | 15 |
| Wright State University | Dayton | 02 | 32 |
| Delaware, University Of | Delaware Bay | 02 | 58 |
| Capitol Institute Of Technology | Washington | 02 | 12 |
| Catholic University Of America | Washington | 02 | 17 |
| George Washington University | Washington | 02 | 132 |
| Howard University | Washington | 02 | 28 |
| Maryland University Of | Washington | 02 | 223 |
| Gannon College | Erie | 02 | 18 |
| Pittsburgh, University Of - Johnstown | Johnstown | 02 | 21 |
| Lafayette College | Lehigh Valley | 02 | 14 |
| Lehigh University | Lehigh Valley | 02 | 108 |
| Wilkes College | Lehigh Valley | 02 | 36 |
| Northern Ohio University | Lima | 02 | 51 |
| Drexel University - Day Division | Philadelphia | 02 | 169 |
| Drexel University Evening College | Philadelphia | 02 | 28 |
| Pennsylvania, University Of | Philadelphia | 02 | 104 |
| Spring Garden College | Philadelphia | 02 | 38 |
| Swarthmore College | Philadelphia | 02 | 11 |
| Temple University - College Of Engineering Technology | Philadelphia | 02 | 52 |
| Villanova, University Of | Philadelphia | 02 | 56 |
| Widner College | Philadelphia | 02 | 17 |
| Carnegie Mellon University | Pittsburgh | 02 | 140 |
| Pennsylvania State University - Mc Keesport Campus* | Pittsburgh | 02 | 10 |
| Pittsburgh, University Of | Pittsburgh | 02 | 142 |
| Stubenville, College Of | Pittsburgh | 02 | 8 |
| West Virginia University | Pittsburgh | 02 | 70 |
| Grove City College | Sharon | 02 | 60 |
| Youngstown State University | Sharon | 02 | 174 |
| Pennsylvania State University - Capitol Campus | Susquehanna | 02 | 92 |
| West Virginia Institute of Technology | West Virginia | 02 | 28 |
| Alabama In Birmingham University Of | Alabama | 03 | 25 |
| Alabama University Of | Alabama | 03 | 63 |
| Auburn University | Alabama | 03 | 109 |
| Tuskegee Institute | Alabama | 03 | 23 |
| Devry Institute Of Technology - Atlanta* | Atlanta | 03 | 34 |
| Georgia Institute of Technology | Atlanta | 03 | 440 |
| Southern Technical Institute | Atlanta | 03 | 34 |
| Louisiana State University - Baton Rouge | Baton Rouge | 03 | 88 |
| Southern University | Baton Rouge | 03 | 65 |
| Florida Institute Of Technology | Canaveral | 03 | 77 |

| <u>SCHOOL</u> | <u>SECTION LOCATION</u> | <u>REGION</u> | <u>MEMBERSHIP 1978</u> |
|---|-------------------------|---------------|----------------------------|
| Virginia, University Of | Central Virginia | 03 | 90 |
| Chattanooga State Technical Institute | Chattanooga | 03 | 3 |
| Tennessee, University Of | East Tennessee | 03 | 201 |
| Evansville, University Of | Evansville-Owensboro | 03 | 37 |
| Indiana State University | Evansville-Owensboro | 03 | 27 |
| South Florida, University Of | Florida West Coast | 03 | 45 |
| Florida, University Of | Gainesville | 03 | 121 |
| Old Dominion University | Hampton Roads | 03 | 63 |
| Tidewater Community College* | Hampton Roads | 03 | 4 |
| Alabama In Huntsville, University Of | Huntsville | 03 | 37 |
| Kentucky, University Of | Lexington | 03 | 63 |
| Louisville, University Of | Louisville | 03 | 54 |
| Western Kentucky University | Louisville | 03 | 31 |
| Christian Brothers College | Memphis | 03 | 64 |
| Memphis State, Technical Institute At* | Memphis | 03 | 44 |
| Memphis State University | Memphis | 03 | 47 |
| Mississippi, University Of | Memphis | 03 | 16 |
| Tennessee, University Of - Martin | Memphis | 03 | 23 |
| Miami, University Of | Miami | 03 | 44 |
| Mississippi State University | Mississippi | 03 | 108 |
| South Alabama, University Of | Mobile | 03 | 58 |
| Tennessee State University | Nashville | 03 | 32 |
| Tennessee Technological University | Nashville | 03 | 32 |
| Vanderbilt University | Nashville | 03 | 92 |
| New Orleans, University Of | New Orleans | 03 | 15 |
| Tulane University | New Orleans | 03 | 71 |
| Florida Technological University | Orlando | 03 | 54 |
| Florida Atlantic University | Palm Beach | 03 | 21 |
| Palm Beach Junior College* | Palm Beach | 03 | 2 |
| Georgia Southern College | Savannah | 03 | 20 |
| Savannah State College | Savannah | 03 | 7 |
| Virginia Military Institute | Virginia Mountain | 03 | 58 |
| Virginia Polytechnic Institute | Virginia Mountain | 03 | 255 |
| Virginia Western Community College* | Virginia Mountain | 03 | 18 |
| North Carolina Agricultural and Technical State | Central North Carolina | 03 | 7 |
| Central Piedmont Community College* | Charlotte | 03 | 22 |
| Gaston College* | Charlotte | 03 | 7 |
| North Carolina At Charlotte, University Of | Charlotte | 03 | 47 |
| Duke University | Eastern North Carolina | 03 | 81 |
| Fayetteville Technical Institute | Eastern North Carolina | 03 | 32 |
| Holding Technical Institute | Eastern North Carolina | 03 | 6 |
| North Carolina State University | Eastern North Carolina | 03 | 87 |
| Citadel, The | Coastal South Carolina | 03 | 87 |
| South Carolina, University Of | Columbia | 03 | 59 |
| Clemson University | Piedmont | 03 | 74 |
| Greenville Technical ED Center* | Piedmont | 03 | 19 |
| Iowa, University Of | Cedar Rapids | 04 | 31 |
| Illinois, University Of - Urbana | Central Illinois | 04 | 408 |
| Purdue University | Central Indiana | 04 | 358 |
| Rose-Hulman Institute Of Technology | Central Indiana | 04 | 47 |
| Iowa State University | Central Iowa | 04 | 175 |
| Devry Institute Of Technology - Illinois | Chicago | 04 | 149 |
| Illinois Institute Of Technology | Chicago | 04 | 94 |
| Illinois - Chicago, University Of | Chicago | 04 | 87 |
| Northwestern University | Chicago | 04 | 89 |
| Indiana Institute Of Technology | Fort Wayne | 04 | 20 |
| Purdue University - Fort Wayne Campus* | Fort Wayne | 04 | 16 |
| Tri-State College | Fort Wayne | 04 | 18 |
| Bradley University | Illinois Valley | 04 | 70 |
| Wisconsin, University Of - Madison | Madison | 04 | 196 |
| Wisconsin, University Of - Platteville* | Madison | 04 | 3 |
| Milwaukee School of Engineering | Milwaukee | 04 | 96 |
| Gateway Technical Institute - Racine Campus* | Milwaukee | 04 | 34 |
| Marquette University | Milwaukee | 04 | 129 |
| Wisconsin - Milwaukee University Of | Milwaukee | 04 | 61 |
| Nebraska At Lincoln, University Of | Nebraska | 04 | 93 |
| Nebraska At Omaha, University Of* | Nebraska | 04 | 28 |
| Radio Engineering Institute* | Nebraska | 04 | 20 |
| General Motors Institute | Northeastern Michigan | 04 | 70 |
| Lake Superior State College | Northeastern Wisconsin | 04 | 21 |

| SCHOOL | SECTION LOCATION | REGION | MEMBERSHIP 1978 |
|---|------------------------|--------|--------------------|
| Michigan Technological University | Northeastern Wisconsin | 04 | 105 |
| Northern Illinois University | Rock River Valley | 04 | 44 |
| Notre Dame University Of | Michiana | 04 | 91 |
| Detroit Institute Of Technology | Southeastern Michigan | 04 | 4 |
| Detroit University Of | Southeastern Michigan | 04 | 49 |
| Lawrence Institute Of Technology | Southeastern Michigan | 04 | 108 |
| Michigan State University | Southeastern Michigan | 04 | 92 |
| Michigan, University Of | Southeastern Michigan | 04 | 219 |
| Michigan, University - Of - Dearborn Campus | Southeastern Michigan | 04 | 22 |
| Oakland University | Southeastern Michigan | 04 | 6 |
| St. Clair College Of Technology* | Southeastern Michigan | 04 | 14 |
| Wayne State University | Southeastern Michigan | 04 | 72 |
| Windsor University Of | Southeastern Michigan | 04 | 75 |
| Toledo University Of | Toledo | 04 | 87 |
| Minnesota, University Of | Twin Cities | 04 | 141 |
| South Dakota State University | Twin Cities | 04 | 56 |
| Wisconsin, University Of - Stolt* | Twin Cities | 04 | 24 |
| North Dakota State University | Twin Cities | 04 | 82 |
| North Dakota, University Of | Twin Cities | 04 | 33 |
| Western Michigan University | West Michigan | 04 | 53 |
| Purdue University - Calmet Campus | Calumet | 04 | 57 |
| Valparaiso Technical Institute* | Calumet | 04 | 58 |
| Valparaiso University | Calumet | 04 | 54 |
| Arkansas At Little Rock University Of | Arkansas | 05 | 9 |
| Lamar University | Beaumont | 05 | 52 |
| McNeese State University | Beaumont | 05 | 10 |
| Texas, University Of - Austin | Central Texas | 05 | 367 |
| Del Mar College* | Corpus Christi | 05 | 49 |
| Texas A and I University | Corpus Christi | 05 | 39 |
| Southern Methodist University | Dallas | 05 | 55 |
| Colorado At Boulder University Of | Denver | 05 | 152 |
| Colorado At Colorado Springs University Of | Denver | 05 | 22 |
| Colorado State University | Denver | 05 | 90 |
| Colorado, University Of - Denver Center | Denver | 05 | 90 |
| Metropolitan State College | Denver | 05 | 63 |
| Wyoming University Of | Denver | 05 | 44 |
| South Dakota School Of Mines And Technology | Denver | 05 | 82 |
| Southern Colorado State College | Denver | 05 | 30 |
| United States Air Force Academy | Denver | 05 | 18 |
| New Mexico State University | El Paso | 05 | 78 |
| Texas At El Paso University Of | El Paso | 05 | 50 |
| Texas At Arlington University Of | Fort Worth | 05 | 98 |
| Houston, University Of - College Of Engineering | Houston | 05 | 124 |
| Houston, University Of - College Of Technology | Houston | 05 | 20 |
| Prairie View A & M University | Houston | 05 | 47 |
| Rice University | Houston | 05 | 102 |
| Texas A & M University | Houston | 05 | 355 |
| Central Missouri State University | Kansas City | 05 | 20 |
| Kansas State University | Kansas City | 05 | 91 |
| Kansas University Of | Kansas City | 05 | 66 |
| Missouri Institute Of Technology* | Kansas City | 05 | 33 |
| Southwest Missouri State College | Kansas City | 05 | 24 |
| Oklahoma University Of | Oklahoma City | 05 | 58 |
| Missouri - Rolla University Of | Saint Louis | 05 | 293 |
| Missouri At Columbia University Of | Saint Louis | 05 | 85 |
| Southern Illinois University - Carbondale | Saint Louis | 05 | 34 |
| Southern Illinois University - Edwardsville | Saint Louis | 05 | 31 |
| Washington University | Saint Louis | 05 | 81 |
| Letourneau College | Shreveport | 05 | 28 |
| Louisiana Technical University | Shreveport | 05 | 103 |
| Northwestern State College Of Louisiana | Shreveport | 05 | 23 |
| Texas Technical University | South Plains | 05 | 132 |
| Oklahoma State University | Tulsa | 05 | 85 |
| Tulsa University Of | Tulsa | 05 | 23 |
| Wichita State University | Wichita | 05 | 40 |
| Arkansas University Of | Ozark | 05 | 101 |
| Southwestern Louisiana University Of | Lafayette | 05 | 61 |
| New Mexico University Of | Albuquerque | 06 | 74 |
| Alaska, University Of | Alaska | 06 | 29 |
| California Polytechnic State University-Pomona | Foothill | 06 | 96 |
| Hawaii University Of | Hawaii | 06 | 38 |
| California State College - Los Angeles | Met Los Angeles | 06 | 36 |

| SCHOOL | SECTION LOCATION | REGION | MEMBERSHIP 1978 |
|---|-----------------------|--------|--------------------|
| Northrop Institute of Technology | Met Los Angeles | 06 | 64 |
| Southern California, University Of | Met Los Angeles | 06 | 200 |
| Montana State University | Montana | 06 | 48 |
| California State University - Fullerton | Orange County | 06 | 36 |
| California Irvine University Of | Orange County | 06 | 82 |
| Arizona State University | Phoenix | 06 | 108 |
| Devry Institute Of Technology - Arizona | Phoenix | 06 | 13 |
| Northern Arizona University | Phoenix | 06 | 40 |
| Oregon Institute Of Technology* | Portland | 06 | 56 |
| Portland State College | Portland | 06 | 30 |
| Portland University Of | Portland | 06 | 41 |
| Oregon State University | Portland | 06 | 115 |
| California Davis University Of | Sacramento | 06 | 103 |
| California State University - Sacramento | Sacramento | 06 | 80 |
| California State University - Chico | Sacramento | 06 | 52 |
| Nevada University Of | Sacramento | 06 | 38 |
| Pacific University Of | Sacramento | 06 | 31 |
| California State University - San Diego* | San Diego | 06 | 66 |
| California State University - Northridge | San Fernando Valley | 06 | 48 |
| Los Angeles Pierce College* | San Fernando Valley | 06 | 43 |
| California State University - Fresno | San Francisco | 06 | 38 |
| San Francisco State University | San Francisco | 06 | 21 |
| Stanford University | San Francisco | 06 | 248 |
| California Berkeley University Of | San Francisco | 06 | 311 |
| California State University - San Jose | San Francisco | 06 | 66 |
| Foothill College* | San Francisco | 06 | 20 |
| Santa Clara, University Of | San Francisco | 06 | 48 |
| United States Naval Postgraduate School | San Francisco | 06 | 38 |
| Cogswell Polytechnical College* | San Francisco | 06 | 17 |
| Heald Engineering College | San Francisco | 06 | 8 |
| California Polytechnic State University - San Luis OBI | Santa Barbara | 06 | 79 |
| California, University Of - Santa Barbara | Santa Barbara | 06 | 82 |
| California Los Angeles University Of | Santa Monica Bay | 06 | 196 |
| Loyola Marymount University | Santa Monica Bay | 06 | 30 |
| Seattle University | Seattle | 06 | 15 |
| Washington, University Of | Seattle | 06 | 139 |
| California State College - Long Beach | South Bay Harbor | 06 | 78 |
| Gonzaga University | Spokane | 06 | 10 |
| Idaho University Of | Spokane | 06 | 56 |
| Washington State University | Spokane | 06 | 106 |
| Arizona University Of | Tucson | 06 | 93 |
| Brigham Young University | Utah | 06 | 81 |
| Utah State University | Utah | 06 | 50 |
| Utah, University Of | Utah | 06 | 81 |
| Queens University | Bay Of Quinte | 07 | 111 |
| Royal Military College Of Canada | Bay Of Quinte | 07 | 13 |
| Saint Lawrence College Of Applied Arts and Technology* | Bay Of Quinte | 07 | 19 |
| McMaster University | Hamilton | 07 | 80 |
| Mohawk College Of Applied Arts and Technology* | Hamilton | 07 | 67 |
| Niagara College* | Niagara International | 07 | 61 |
| Conestoga College Of Applied Arts and Technology* | Kitchener-Waterloo | 07 | 48 |
| Waterloo University Of | Kitchener-Waterloo | 07 | 169 |
| Fanshawe College | London | 07 | 68 |
| Western Ontario, University Of | London | 07 | 49 |
| Concordia University | Montreal | 07 | 80 |
| Ecole Polytechnique | Montreal | 07 | 177 |
| McGill University | Montreal | 07 | 157 |
| Sherbrooke, University Of | Montreal | 07 | 2 |
| Alberta University Of | Northern Canada | 07 | 56 |
| Northern Alberta Institute Of Technology* | Northern Canada | 07 | 2 |
| Algonquin College Of Applied Arts and Technology* | Ottawa | 07 | 98 |
| Carleton University | Ottawa | 07 | 133 |
| Ottawa University Of | Ottawa | 07 | 94 |
| Laval University | Quebec | 07 | 112 |
| Saskatchewan Technical Institute* | Saskatchewan | 07 | 74 |
| Saskatchewan, University Of | Saskatchewan | 07 | 98 |
| Quebec - Trois Rivieres University Of | Saint Maurice | 07 | 14 |
| Calgary University Of | Southern Alberta | 07 | 75 |
| Southern Alberta Institute Of Technology* | Southern Alberta | 07 | 48 |
| Centennial College Of Applied Arts Technology | Toronto | 07 | 35 |

| SCHOOL | SECTION LOCATION | REGION | Membership 1978 |
|--|-----------------------------|--------|--------------------|
| Northern College Of Applied Arts and Technology* | Kitchener-Waterloo | 07 | 8 |
| Radio College Of Canada* | Toronto | 07 | 18 |
| Ryerson Polytechnic Institute* | Toronto | 07 | 96 |
| Seneca College Of Applied Arts and Technology* | Toronto | 07 | 101 |
| Toronto, University Of | Toronto | 07 | 231 |
| British Columbia Institute Of Technology* | Vancouver | 07 | 19 |
| British Columbia, University Of | Vancouver | 07 | 159 |
| Manitoba University Of | Winnipeg | 07 | 169 |
| Red River Community College | Winnipeg | 07 | 104 |
| Memorial University Of New Foundland | Canadian Atlantic | 07 | 45 |
| Nova Scotia Technical College | Canadian Atlantic | 07 | 38 |
| New Brunswick University Of | Canadian Atlantic | 07 | 83 |
| Quebec, University Of - Escole De Tec Superieure | Montreal | 07 | 19 |
| Catholic University Of Louvain | Benelux | 08 | 47 |
| Katholieke Universiteit Te Leuven | Benelux | 08 | 82 |
| Leige Universite Au Sart Tilman | Benelux | 08 | 73 |
| Technische Hogeschool Twente | Benelux | 08 | 19 |
| Cairo, University Of | Egypt | 08 | 15 |
| National Poltechnic Institute of Grenoble Ens | France | 08 | 5 |
| Ecole Nat Sup Des Telecommunications | France | 08 | 8 |
| Ecole Sup Ing D Electrotechnique | France | 08 | 5 |
| Institut Sup D'Electronique Du Nord | France | 08 | 1 |
| Institut Sup Electronique De Paris | France | 08 | 0 |
| Ecole Polytechnique Federale | Switzerland | 08 | 46 |
| Swiss Fed Institute Of Technology | Switzerland | 08 | 30 |
| Israel Institute Of Technology | Israel | 08 | 29 |
| Tel-Aviv University | Israel | 08 | 16 |
| Bologna, University Of | North Italy | 08 | 24 |
| Genova University Of | North Italy | 08 | 13 |
| Padova University Of | North Italy | 08 | 11 |
| Politecnico DI Milano | North Italy | 08 | 59 |
| Politecnico DI Torino | North Italy | 08 | 4 |
| Trieste University Of | North Italy | 08 | 17 |
| London Kings College, University Of | UN Kingdom & Rep Ireland | 08 | 0 |
| Chalmers University Of Technology | Sweden | 08 | 35 |
| Linkoping University | Sweden | 08 | 27 |
| Lund University - Lund Institute of Technology | Sweden | 08 | 37 |
| Royal Institute of Technology | Sweden | 08 | 27 |
| Uppsala, University Of | Sweden | 08 | 21 |
| Rome, University Of | Middle and South Italy | 08 | 9 |
| Escuela Tec Sup DE ING DE TELECOM | Spain | 08 | 113 |
| Technical University Of Athens | Greece | 08 | 50 |
| Ljubljana, University Of | Yugoslavia | 08 | 6 |
| Oulu University Of | Finland | 08 | 22 |
| Tampere University Of Technology | Finland | 08 | 31 |
| Technical University Of Helsinki | Finland | 08 | 52 |
| ESC DE ENG DA SAO CARLOS DA U DE S P | Sao Paulo | 09 | 56 |
| Buenos Aires, University Of | Argentina | 09 | 51 |
| Institute Tec DE Buenos Aires | Argentina | 09 | 15 |
| Universidad Del Sur | Argentina | 09 | 11 |
| Universidad Nacional De Tucuman | Argentina | 09 | 15 |
| Universidad Catolica De Chile | Chile | 09 | 39 |
| Distrital Fran Jose De Caldas Universidad | Colombia | 09 | 93 |
| Pontificia Universidad Javeriana | Colombia | 09 | 66 |
| Universidad DE LOS ANDES | Colombia | 09 | 11 |
| Universidad Industrial DE Santander | Colombia | 09 | 12 |
| Universidad Nacional DE Colombia | Colombia | 09 | 30 |
| Escuela Sup Ingenieria Mec Y Elec | Mexico | 09 | 17 |
| Universidad DE Las Americas | Mexico | 09 | 10 |
| Universidad Nac Autonoma DE Mexico | Mexico | 09 | 25 |
| Instituto Tec Y De EST Sup DE Monterey | Mexico | 09 | 55 |
| Puerto Rico University Of | Puerto Rico & Virgin Island | 09 | 62 |
| Universidad Federal DO Rio DE Janeiro | Rio De Janeiro | 09 | 13 |
| Escola Pol Univ De Sao Paulo | Sao Paulo | 09 | 19 |
| Estadual DE Campinas Universidade | Sao Paulo | 09 | 15 |
| Mackenzie University | Sao Paulo | 09 | 51 |
| Universidad Central DE Venezuela | Venezuela | 09 | 15 |
| Universidad De Carabobo | Venezuela | 09 | 13 |
| Universidad Nacional DE Ingeniera - Lima | Peru | 09 | 38 |
| Centroamericana Universidad | Central America | 09 | 1 |

| SCHOOL | SECTION LOCATION | REGION | MEMBERSHIP 1978 |
|---|------------------|--------|-----------------|
| Universidad De El Salvador | Central America | 09 | 1 |
| Universidad De San Carlos De Guatemala | Central America | 09 | 27 |
| Universidad De Costa Rica | Central America | 09 | 3 |
| Escuela Politecnica Nacional* | Ecuador | 09 | 54 |
| Chinese University Of Hong Kong | Hong Kong | 10 | 110 |
| Indian Institute Of Technology - Bombay | India | 10 | 67 |
| Regional Engineering College - Warangal | India | 10 | 70 |
| Indian Institute Of Technology - Kanpur | India | 10 | 27 |
| Indian Institute Of Technology - Delhi | India | 10 | 32 |
| Hong Kong Polytechnic | Hong Kong | 10 | 183 |
| Hong Kong University Of | Hong Kong | 10 | 23 |
| Osaka University | Hong Kong | 10 | 9 |
| Shizuoka University Graduate School | Tokyo | 10 | 44 |
| Tokyo University Of | Tokyo | 10 | 39 |
| Korea Advanced Institute Of Science | Korea | 10 | 67 |
| Seoul National University | Korea | 10 | 40 |
| PSG College Of Technology | Madras | 10 | 24 |

SECTION C

Table 1 - Group/Society Membership, December 31, 1978; 3-Year Comparison

| Code No. | Group/Society Name | Students | Other Grades | 1978 Total | 1977 Total | 1976 Total |
|----------|--|----------|--------------|------------|------------|------------|
| 1 | Acoustics, Speech & Signal Processing | 1,556 | 5,343 | 6,899 | 6,336 | 6,227 |
| 2 | Broadcast, Cable & Consumer Electronics | 1,111 | 5,586 | 6,697 | 6,319 | 6,138 |
| 3 | Antennas & Propagation | 701 | 3,752 | 4,453 | 4,405 | 4,633 |
| 4 | Circuits & Systems | 2,650 | 7,424 | 10,074 | 9,921 | 10,619 |
| 5 | Nuclear & Plasma Sciences | 419 | 2,302 | 2,721 | 2,659 | 2,673 |
| 6 | Vehicular Technology | 198 | 2,371 | 2,569 | 2,470 | 2,552 |
| 7 | Reliability | 172 | 2,635 | 2,807 | 2,651 | 2,487 |
| 9 | Instrumentation & Measurement | 604 | 4,477 | 5,081 | 4,996 | 5,145 |
| 10 | Aerospace & Electronic Systems | 928 | 5,985 | 6,913 | 6,701 | 6,831 |
| 12 | Information Theory | 989 | 3,808 | 4,797 | 4,616 | 4,822 |
| 13 | Industrial Electronics & Control Instrumentation | 848 | 4,458 | 5,306 | 5,197 | 5,210 |
| 14 | Engineering Management | 795 | 6,613 | 7,408 | 6,991 | 6,645 |
| 15 | Electron Devices | 1,507 | 6,491 | 7,998 | 7,712 | 8,491 |
| 16 | Computer | 7,175 | 28,213 | 35,388 | 29,202 | 24,973 |
| 17 | Microwave Theory & Techniques | 871 | 4,823 | 5,694 | 5,605 | 6,144 |
| 18 | Engineering in Medicine & Biology | 1,863 | 5,444 | 7,307 | 7,389 | 7,767 |
| 19 | Communications | 2,305 | 10,031 | 12,336 | 11,572 | 11,787 |
| 20 | Sonics & Ultrasonics | 313 | 1,760 | 2,073 | 1,978 | 1,962 |
| 21 | Components, Hybrids & Manufacturing Technology | 247 | 2,602 | 2,849 | 2,728 | 1,847 |
| 23 | Control Systems | 1,660 | 5,669 | 7,329 | 7,104 | 7,442 |
| 25 | Education | 193 | 1,999 | 2,192 | 2,133 | 2,198 |
| 26 | Professional Communication | 193 | 1,545 | 1,738 | 1,412 | 1,516 |
| 27 | Electromagnetic Compatibility | 130 | 1,597 | 1,727 | 1,629 | 1,618 |
| 28 | Systems, Man & Cybernetics | 1,125 | 3,673 | 4,798 | 4,847 | 5,263 |
| 29 | Geoscience Electronics | 162 | 1,241 | 1,403 | 1,328 | 1,278 |
| 31 | Power Engineering | 1,502 | 19,069 | 20,571 | 19,817 | 19,701 |
| 32 | Electrical Insulation | 81 | 1,351 | 1,432 | 1,410 | 1,432 |
| 33 | Magnetics | 199 | 1,984 | 2,183 | 2,045 | 2,041 |
| 34 | Industry Applications | 720 | 9,300 | 10,020 | 9,467 | 8,901 |
| 35 | *Manufacturing Technology | | | | | 1,215 |
| 36 | **Quantum Electronics & Applications | 671 | 2,378 | 3,049 | 2,946 | - |
| | Totals | 31,888 | 163,924 | 195,812# | 183,586 | 179,558 |

* The Manufacturing Technology Group and the Parts, Hybrids & Packaging Group merged in 1977 to form the Components, Hybrids & Manufacturing Technology Group.

** The former Quantum Electronics Council became the Quantum Electronics & Applications Group in 1977.

Includes 2,489 Committee on Social Implications of Technology Proceedings subscribers.

SECTION C

Table 2 - Group/Society Membership, by Region, by Section, by Group and Society - 1978

| REGION 6 Section | Total G/S Members | Total Affil- lates | ASSP 1 | BRCE 2 | AP 3 | CAS 4 | NPS 5 | VT 6 | R 7 | IM 9 | AES 10 | IT 12 | IECI 13 | EM 14 | ED 15 | COMP 16 | MIT 17 | EMB 18 | COM 19 | SU 20 | CHMT 21 | CS 23 | Ed 25 | PC 26 | EMC 27 | SMC 28 | GE 29 | PE 31 | EI 32 | MAG 33 | JA 34 | QEA 36 |
|---------------------------|-------------------------|--------------------------|-----------|-----------|---------|----------|----------|---------|--------|---------|-----------|----------|------------|----------|----------|------------|-----------|-----------|-----------|----------|------------|----------|----------|----------|-----------|-----------|----------|----------|----------|-----------|----------|-----------|
| 06 03 Alamogordo-Hollomen | 35 | 0 | 0 | 0 | 2 | 5 | 1 | 1 | 0 | 2 | 2 | 1 | 0 | 6 | 0 | 8 | 2 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | |
| 06 05 Alaska | 175 | 4 | 4 | 8 | 8 | 0 | 2 | 4 | 0 | 5 | 4 | 2 | 6 | 6 | 1 | 28 | 2 | 5 | 20 | 0 | 0 | 2 | 4 | 8 | 2 | 3 | 5 | 38 | 0 | 0 | 6 | 2 |
| 06 01 Albuquerque | 690 | 16 | 17 | 9 | 32 | 38 | 48 | 3 | 6 | 22 | 21 | 13 | 8 | 31 | 50 | 119 | 15 | 15 | 22 | 8 | 11 | 23 | 9 | 5 | 17 | 14 | 7 | 85 | 1 | 6 | 10 | 25 |
| 06 07 Boise | 129 | 0 | 1 | 3 | 0 | 12 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 6 | 6 | 25 | 1 | 1 | 3 | 0 | 1 | 7 | 1 | 1 | 0 | 0 | 0 | 38 | 0 | 3 | 16 | 0 |
| 06 09 Buenaventura | 597 | 15 | 15 | 16 | 21 | 22 | 4 | 5 | 10 | 16 | 49 | 17 | 3 | 37 | 38 | 141 | 39 | 10 | 20 | 11 | 12 | 15 | 5 | 8 | 11 | 15 | 3 | 9 | 3 | 16 | 10 | 16 |
| 06 11 China Lake | 124 | 2 | 1 | 4 | 7 | 10 | 0 | 3 | 2 | 8 | 15 | 1 | 3 | 2 | 2 | 23 | 15 | 0 | 4 | 2 | 0 | 8 | 0 | 0 | 3 | 0 | 1 | 3 | 2 | 1 | 4 | 0 |
| 06 13 Foothill | 883 | 27 | 18 | 19 | 14 | 47 | 16 | 13 | 15 | 26 | 47 | 13 | 20 | 40 | 22 | 216 | 29 | 34 | 35 | 9 | 13 | 22 | 8 | 4 | 17 | 23 | 12 | 86 | 3 | 9 | 44 | 9 |
| 06 65 Eastern Montana | 32 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 14 | 0 | 0 | 0 | 4 | 0 |
| 06 15 Fort Huachuca | 57 | 0 | 1 | 2 | 2 | 1 | 2 | 0 | 0 | 0 | 3 | 1 | 1 | 5 | 1 | 12 | 0 | 0 | 10 | 0 | 0 | 1 | 0 | 2 | 5 | 0 | 0 | 6 | 1 | 0 | 1 | 0 |
| 06 17 Hawaii | 412 | 10 | 10 | 14 | 6 | 15 | 4 | 3 | 1 | 15 | 16 | 18 | 7 | 22 | 5 | 96 | 7 | 13 | 40 | 3 | 2 | 11 | 2 | 4 | 5 | 11 | 10 | 41 | 1 | 2 | 22 | 6 |
| 06 19 Idaho | 79 | 4 | 1 | 0 | 0 | 2 | 9 | 1 | 3 | 2 | 2 | 1 | 5 | 5 | 3 | 15 | 0 | 1 | 1 | 0 | 0 | 3 | 1 | 2 | 0 | 0 | 0 | 12 | 0 | 0 | 10 | 0 |
| 06 21 Las Vegas | 110 | 10 | 1 | 8 | 3 | 2 | 8 | 3 | 0 | 4 | 2 | 0 | 2 | 2 | 3 | 19 | 5 | 2 | 5 | 1 | 0 | 2 | 1 | 1 | 4 | 0 | 1 | 28 | 0 | 0 | 0 | 3 |
| 06 71 Los Alamos | 192 | 20 | 7 | 2 | 0 | 5 | 43 | 2 | 2 | 2 | 0 | 2 | 8 | 3 | 8 | 55 | 0 | 2 | 4 | 1 | 1 | 3 | 0 | 2 | 1 | 5 | 1 | 6 | 0 | 1 | 4 | 22 |
| 06 23 Met. Los Angeles | 1,148 | 35 | 50 | 38 | 21 | 52 | 23 | 16 | 14 | 21 | 36 | 41 | 20 | 23 | 36 | 230 | 29 | 39 | 61 | 10 | 14 | 43 | 7 | 14 | 11 | 34 | 9 | 134 | 9 | 17 | 61 | 35 |
| 06 25 Montana | 98 | 1 | 1 | 4 | 3 | 4 | 2 | 4 | 1 | 2 | 2 | 1 | 1 | 2 | 3 | 25 | 5 | 1 | 6 | 0 | 1 | 4 | 2 | 0 | 0 | 2 | 0 | 18 | 0 | 0 | 4 | 0 |
| 06 67 Oakland-East Bay | 2,255 | 78 | 74 | 44 | 29 | 144 | 102 | 22 | 17 | 57 | 28 | 48 | 52 | 49 | 132 | 527 | 42 | 91 | 78 | 20 | 15 | 85 | 10 | 19 | 15 | 56 | 12 | 236 | 15 | 26 | 145 | 65 |
| 06 27 Orange County | 3,330 | 95 | 116 | 95 | 80 | 169 | 60 | 30 | 54 | 75 | 197 | 90 | 53 | 123 | 155 | 872 | 105 | 111 | 171 | 37 | 60 | 121 | 19 | 24 | 27 | 63 | 19 | 172 | 9 | 54 | 124 | 45 |
| 06 29 Phoenix | 1,627 | 21 | 36 | 49 | 34 | 93 | 17 | 30 | 36 | 29 | 49 | 24 | 27 | 52 | 118 | 346 | 68 | 27 | 65 | 10 | 33 | 46 | 20 | 14 | 11 | 21 | 8 | 262 | 8 | 12 | 52 | 30 |
| 06 31 Portland | 1,727 | 44 | 46 | 48 | 21 | 72 | 19 | 19 | 16 | 47 | 18 | 17 | 43 | 47 | 101 | 356 | 36 | 63 | 51 | 21 | 23 | 40 | 17 | 13 | 13 | 42 | 11 | 375 | 8 | 5 | 121 | 18 |
| 06 33 Richland | 213 | 5 | 5 | 5 | 1 | 4 | 15 | 2 | 4 | 5 | 1 | 1 | 9 | 13 | 2 | 32 | 1 | 3 | 2 | 3 | 1 | 13 | 3 | 3 | 0 | 9 | 4 | 51 | 2 | 1 | 11 | 7 |
| 06 35 Sacramento | 840 | 22 | 26 | 30 | 13 | 49 | 11 | 16 | 5 | 16 | 12 | 19 | 21 | 22 | 23 | 204 | 13 | 49 | 51 | 6 | 4 | 33 | 15 | 10 | 4 | 24 | 5 | 96 | 0 | 7 | 45 | 11 |
| 06 37 San Diego | 2,014 | 76 | 94 | 52 | 63 | 87 | 62 | 18 | 34 | 45 | 105 | 82 | 21 | 76 | 90 | 500 | 61 | 64 | 108 | 23 | 27 | 74 | 6 | 13 | 22 | 49 | 19 | 114 | 4 | 25 | 32 | 44 |
| 06 39 San Fernando Valley | 1,759 | 65 | 74 | 42 | 67 | 86 | 17 | 16 | 53 | 38 | 141 | 44 | 19 | 59 | 63 | 430 | 105 | 55 | 63 | 12 | 40 | 76 | 12 | 23 | 22 | 38 | 9 | 68 | 5 | 26 | 36 | 20 |
| 06 41 San Francisco | 1,518 | 48 | 44 | 52 | 19 | 59 | 25 | 31 | 16 | 25 | 28 | 26 | 26 | 51 | 61 | 297 | 38 | 58 | 89 | 7 | 16 | 41 | 10 | 20 | 10 | 32 | 7 | 279 | 7 | 13 | 115 | 16 |
| 06 43 San Gabriel Valley | 870 | 32 | 27 | 22 | 23 | 28 | 15 | 10 | 8 | 22 | 44 | 26 | 6 | 26 | 32 | 205 | 25 | 29 | 50 | 11 | 12 | 32 | 2 | 13 | 10 | 25 | 11 | 84 | 3 | 14 | 36 | 19 |
| 06 45 Santa Barbara | 689 | 11 | 41 | 23 | 28 | 37 | 10 | 9 | 7 | 16 | 34 | 16 | 12 | 17 | 29 | 155 | 34 | 23 | 35 | 18 | 11 | 26 | 11 | 5 | 12 | 16 | 6 | 15 | 2 | 17 | 12 | 12 |
| 06 69 Santa Clara Valley | 8,106 | 264 | 305 | 224 | 175 | 466 | 112 | 57 | 146 | 160 | 271 | 211 | 100 | 285 | 823 | 2024 | 402 | 195 | 529 | 104 | 168 | 234 | 44 | 45 | 64 | 213 | 42 | 246 | 27 | 176 | 105 | 153 |
| 06 47 Santa Monica Bay | 1,927 | 79 | 101 | 49 | 55 | 110 | 26 | 14 | 31 | 26 | 137 | 88 | 15 | 51 | 96 | 491 | 67 | 83 | 117 | 10 | 24 | 94 | 9 | 9 | 17 | 71 | 7 | 29 | 1 | 19 | 20 | 60 |
| 06 49 Seattle | 2,264 | 43 | 77 | 59 | 76 | 111 | 26 | 26 | 26 | 66 | 153 | 35 | 42 | 96 | 44 | 456 | 56 | 103 | 117 | 32 | 27 | 73 | 17 | 21 | 30 | 29 | 24 | 259 | 5 | 13 | 139 | 26 |
| 06 51 South Bay Harbor | 1,989 | 79 | 70 | 56 | 72 | 93 | 28 | 12 | 40 | 27 | 165 | 71 | 16 | 55 | 116 | 439 | 120 | 46 | 160 | 11 | 35 | 84 | 9 | 12 | 23 | 36 | 14 | 53 | 2 | 26 | 67 | 31 |
| 06 53 Spokane | 286 | 5 | 7 | 11 | 7 | 22 | 3 | 4 | 1 | 7 | 4 | 5 | 9 | 14 | 7 | 60 | 2 | 9 | 7 | 1 | 2 | 9 | 3 | 1 | 1 | 7 | 4 | 57 | 0 | 1 | 16 | 5 |
| 06 55 Tucson | 424 | 6 | 11 | 10 | 15 | 34 | 4 | 8 | 4 | 6 | 15 | 11 | 9 | 10 | 28 | 81 | 13 | 22 | 23 | 3 | 8 | 13 | 8 | 2 | 9 | 11 | 4 | 36 | 1 | 11 | 4 | 10 |
| 06 57 Utah | 808 | 36 | 49 | 26 | 18 | 35 | 11 | 2 | 7 | 16 | 22 | 19 | 15 | 20 | 21 | 244 | 22 | 55 | 35 | 10 | 3 | 25 | 10 | 6 | 4 | 20 | 7 | 61 | 0 | 2 | 35 | 8 |
| 06 59 Vandenberg | 81 | 5 | 4 | 3 | 1 | 0 | 0 | 1 | 0 | 2 | 9 | 0 | 0 | 5 | 0 | 36 | 0 | 3 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | 1 | 2 | 5 | 0 | 1 | 2 | 0 |
| 06 61 Wenatchee | 22 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 3 | 0 |
| TOTALS | 37,510 | 1,159 | 1334 | 1030 | 917 | 1916 | 726 | 386 | 561 | 811 | 1632 | 944 | 583 | 1263 | 2119 | 8771 | 1359 | 1213 | 1987 | 384 | 564 | 1267 | 265 | 307 | 370 | 870 | 266 | 3028 | 119 | 504 | 1316 | 698 |

SECTION C - Group/Society Membership, by Region, by Section, by Group and Society - 1978

SECTION C

SECTION C

TABLE 4 - IEEE GROUP/SOCIETY CHAPTER ACTIONS IN 1978

| <u>Region/Section</u> | <u>New Chapters</u> | <u>Change in Status of Existing Chapter</u> | <u>Dissolving</u> |
|---|--|--|-------------------|
| <u>REGION 1</u> | | | |
| Boston Long Island/New York New Jersey Coast | QEA-36 EMC-27 | EMC expanded to include VT-6 to form a Joint EMC-27/VT-6, ED/MTT expanded to include QEA to form ED/MTT/QEA. | |
| Schenectady | ASSP-01/IT-12/COM-19 | | |
| Syracuse | | | R-7 |
| <u>REGION 2</u> | | | |
| Eastern Shore Pittsburgh | C-16 SU-20, EMB-18 | | |
| <u>REGION 3</u> | | | |
| Florida West Coast Miami Virginia Mountain | ASSP-01 IA-34 IECI-13/C-16/ CS-23 | | |
| <u>REGION 4</u> | | | |
| Madison/Milwaukee | | PE-31 Chapter merged with NE Wisc. | |
| <u>REGION 5</u> | | | |
| Dallas Houston Oklahoma City | IA-34 EM-14 PE-31/IA-34 | | |
| <u>REGION 6</u> | | | |
| Los Alamos Metropolitan Los Angeles San Diego Spokane | QEA-36 QEA-36 EMC-27 IA-34/EM-14 | | |
| <u>REGION 7</u> | | | |
| Bay of Quinte/Hamilton Kitchener-Waterloo/London/ Toronto Winnipeg | EI-32 C-16 | | |
| <u>REGION 8</u> | | | |
| Germany (West) Israel | COM-19 | | COM-19 |
| <u>REGION 9</u> | | | |
| San Paulo | C-16 | | |
| <u>REGION 10</u> | | | |
| Bombay | C-16 | | |

SECTION C

TABLE 5 - IEEE GROUP/SOCIETY CHAPTERS - As of 12/31/78

| Code | Group/Society Name | No. of Chapters | Section/Council Location | | |
|--------|---|-----------------|--|---|---|
| AES-10 | Aerospace & Electronic Systems | 26 | All-India Council Baltimore Central New Eng- land Council Cleveland Dayton Denver Fort Wayne Fort Worth Houston | Long Island Los Angeles Council Mohawk Valley New Jersey Coast N.Y./No. Jersey Orlando Ottawa Philadelphia Rochester St. Louis | San Diego Santa Clara Valley/ San Francisco/ Oakland-East Bay Seattle Southeastern Mich. Syracuse Vancouver NCA Council* |
| AP-3 | Antennas & Propagation | 30 | Albuquerque Atlanta Baltimore Benelux Central New Eng- land Council Chicago Columbus Dallas Denver Florida W. Coast | Houston Huntsville Israel Long Island/N.Y. Los Angeles Council Montreal North Jersey Orange County Philadelphia Phoenix St. Louis | San Diego Santa Clara Valley/ San Francisco Oakland-East Bay Southeastern Mich. Seattle Spokane Syracuse Tokyo Vancouver NCA Council* |
| ASSP-1 | Acoustics, Speech & Signal Processing | 9 | Chicago Cleveland Kitchener-Waterloo | Oakland-East Bay Ottawa Philadelphia | Schenectady Southeastern Mich. Switzerland |
| BCCE-2 | Broadcast, Cable & Consumer Electronics | 7 | Cleveland Chicago Florida West Coast | Philadelphia NCA Council* Tokyo | Toronto |
| CAS-4 | Circuits & Systems | 27 | Canton Central Indiana Central New Eng- land Council Chicago Cleveland Delhi Fort Wayne Hamilton Houston Kitchener-Waterloo | Los Angeles Council Mid-Hudson Montreal Ottawa Philadelphia Phoenix Portland Princeton Sacramento Seattle | Spokane Syracuse Santa Clara Valley/ San Francisco/ Oakland-East Bay Southeastern Mich. Tokyo Twin Cities United Kingdom & Republic of Ireland |
| COM-19 | Communications | 53 | Alabama All-India Council Atlanta Baltimore Canton Central Illinois Central New Eng- land Council Charlotte Chicago Columbus Dallas Denver Eastern N.C./ Central N.C./ Winston-Salem Florida West Coast Fort Huachuca Fort Wayne | Hamilton Houston Israel Kansas City Kitchener-Waterloo Long Island Los Angeles Council Maine Mexico Miami Mohawk Valley Montreal New Jersey Coast New Orleans New York North Jersey Orlando Ottawa Philadelphia | Pittsburgh Phoenix Rochester Sacramento San Diego Santa Clara Valley/ Oakland-East Bay San Francisco Schenectady Seattle Southeastern Mich. Switzerland Syracuse Tokyo Toronto Twin Cities Vancouver Winnipeg NCA Council |

*NCA Council = National Capital Area Council

| Code | Group/Society Name | No. of Chapters | Section/Council Location | | |
|---------|--|-----------------|--|---|---|
| CHMT-21 | Components, Hybrids & Manufacturing Technology | 12 | Central New England Council Chicago Dayton Lehigh Valley | Los Angeles Council New Jersey Coast N.Y./L.I./No. Jersey Philadelphia Portland | Santa Clara Valley/ San Francisco/ Oakland East Bay Tokyo NCA Council* |
| CS-23 | Control Systems | 31 | Baltimore Buffalo Central New England Council Chicago Cleveland Columbus Dallas Dayton Delhi Denver Fort Worth | Hamilton Huntsville Kitchener-Waterloo Long Island/N.Y. Los Angeles Council Milwaukee North Jersey Philadelphia Phoenix Pittsburgh Sacramento | San Diego Santa Clara Valley/ San Francisco/ Oakland East Bay Schenectady Southeastern Michigan Spokane Toledo Vancouver Virginia Mountain Wichita |
| C-16 | Computer | 70 | Akron Alabama Arkansas Baltimore Binghamton Bombay Canaveral Central Indiana Central N.E. Council Central Texas Chicago Cleveland Columbus Conneticut Dallas Dayton Delaware Bay Denver Eastern Shore Florida West Coast Fort Huachuca Fort Worth France Hamilton | Hampton Roads Houston Huntsville Kitchener-Waterloo Lehigh Valley Long Island Los Angeles Council Milwaukee Mohawk Valley Montreal Nebraska New Hampshire New Jersey Coast New Orleans New York North Jersey Oakland-East Bay Oklahoma City Orlando Philadelphia Phoenix Pittsburgh Portland Princeton | Republic of China Richland Rochester Sacramento St. Louis San Diego Santa Clara Valley/ San Francisco Sao Paulo Schenectady Seattle Southeastern Michigan Spokane Switzerland Syracuse Tokyo Toledo Twin Cities Utah Vancouver NCA Council* Virginia Mountain Wichita Winnipeg |
| Ed-25 | Education | 6 | Central New England Council Hamilton | Los Angeles Council New Jersey Coast United Kingdom & | Republic of Ireland Utah |
| EI-32 | Electrical Insulation | 3 | Bay of Quinte/Hamilton/Montreal/Ottawa | Kitchener-Waterloo/London/Toronto Tokyo | |
| EMC-27 | Electromagnetic | 17 | Albuquerque Atlanta Baltimore Central New England Council Central Texas Chicago | Denver Los Angeles Council Long Island/N.Y. Mohawk Valley New Jersey Coast Philadelphia San Diego | Santa Clara Valley/ San Francisco/ Oakland-East Bay Seattle Tucson NCA Council* |
| ED-15 | Electron Devices | 29 | Albuquerque All-India Council Central Illinois Central New England Council Dayton Houston Israel Kitchener-Waterloo Lehigh Valley Los Angeles Council | Milwaukee New Jersey Coast N.Y./L.I./N.J. Coast Ottawa Philadelphia Phoenix Pittsburgh Portland Princeton Rochester St. Louis | Santa Clara Valley/ San Francisco/ Oakland-East Bay Schenectady Southeastern Michigan Spokane Syracuse Tokyo Twin Cities NCA Council* |

*NCA Council = National Capital Area Council

| <u>Code</u> | <u>Group/Society Name</u> | <u>No. of Chapters</u> | <u>Section/Council Location</u> | | |
|-------------|--|------------------------|--|---|---|
| EM-14 | Engineering Management | 24 | Buffalo Canaveral Central Indiana Central New England Council Chicago Dayton Denver Houston | Huntsville Kansas City Los Angeles Council Mexico Miami Mohawk Valley Montreal Nebraska | North Jersey Ottawa Philadelphia Pittsburgh Rochester Southeastern Michigan Spokane NCA Council |
| EMB-18 | Engineering in Medicine and Biology | 37 | Atlanta Central Indiana Central New England Council Central Texas- (Austin) Central Texas- (San Antonio) Chicago Cincinnati Cleveland Conneticut Dallas Dayton | Denver Houston Los Angeles Council Memphis Miami Milwaukee Montreal Nashville Nebraska New Jersey Coast N.Y./Long Island North Jersey Oakland-East Bay Philadelphia | Pittsburgh Portland Princeton Rochester St. Louis Santa Clara Valley/ San Francisco Seattle Southeastern Michigan Tokyo Twin Cities Utah NCA Council |
| GE-29 | Geoscience Electronics | 2 | North Jersey | NCA Council* | |
| IECI-13 | Industrial Electronics & Control Instrumentation | 12 | All-India Council Arkansas Beaumont Chicago Cleveland | Conneticut Lehigh Valley Los Angeles Council Santa Clara Valley/ San Francisco/ | Oakland-East Bay Toledo Vancouver Virginia Mountain |
| IA-34 | Industry Applications | 54 | Akron Alabama Arkama Arkansas Atlanta Baltimore Baton Rouge Buffalo Central Illinois Central New England Council Chicago Cincinatti Cleveland Columbus Conneticut Dallas Dayton Delaware Bay Denver | Eastern N.C. Hamilton Houston Los Angeles Council Maine Mexico Miami Middle Tennessee Milwaukee Montreal N.Y./Long Island New Zealand Oakland-East Bay Oklahoma City Orlando Philadelphia Phoenix Pittsburgh Portland | Rochester Sacramento St. Louis Santa Clara Valley/ San Francisco Schenectady Seattle Southeastern Michigan Spokane Syracuse Tokyo Toledo Toronto Tulsa Twin Cities Vancouver Virginia Mountain Wichita |
| IT-12 | Information Theory | 12 | Buffalo Central New England Council Central N.C./ Eastern N.C./ Winston-Salem Dallas Denver | Chicago/Central Ill./ Central Indiana/ Michiana Hamilton Kitchener-Waterloo Los Angeles Council N.Y./L.I./No. Jersey Philadelphia | Phoenix Santa Clara Valley/ San Francisco/ Oakland-East Bay Schenectady Southeastern Michigan NCA Council* |
| IM-9 | Instrumentation & Measurement | 15 | Central Illinois Central New England Council Chicago Cleveland Denver | Los Angeles Council Montreal N.Y./L.I./No. Jersey Ottawa Portland Southeastern Michigan | Santa Clara Valley/ San Francisco/ Oakland-East Bay Tokyo Toronto NCA Council* |

*NCA Council = National Capital Area Council

| Code | Group/Society Name | No. of Chapters | Section/Council Location | | |
|--------|-------------------------------|-----------------|---|---|---|
| MAG-33 | Magnetics | 9 | Central New England Council Houston Los Angeles Council | Milwaukee Philadelphia Princeton Santa Clara Valley/ | San Francisco/ Oakland-East Bay Tokyo Twin Cities |
| MTT-17 | Microwave Theory & Techniques | 37 | Albuquerque All-India Council Atlanta Baltimore Benelux Central Illinois Central New England Council Chicago Columbus Dallas Denver Florida West Coast Houston | Huntsville Israel Long Island/N.Y. Los Angeles Council Milwaukee Montreal New Jersey Coast North Jersey Orange County Orlando Ottawa Philadelphia Phoenix | Portland Princeton St. Louis San Diego Santa Clara Valley/ San Francisco/ Oakland-East Bay Schenectady Seattle Southeastern Mich. Syracuse Tokyo NCA Council |
| NPS-5 | Nuclear & Plasma Sciences | 9 | All-India Council Central Illinois Central New England Council | Chicago Conneticut Los Angeles Council North Jersey | Santa Clara Valley/ San Francisco/ Oakland-East Bay NCA Council* |
| PC-26 | Professional Communication | 2 | United Kingdom & Republic of Ireland | Los Angeles Council | |
| PE-31 | Power Engineering | 96 | Akron Alabama Albuquerque All-India Council Argentina Arkansas Atlanta Baltimore Beaumont Berkshire Boston Broward Buffalo Canton Central Illinois Central Indiana Central Texas Charlotte Chatanooga Chicago Cincinnati Cleveland Columbus Conneticut Corpus Christi Dallas Dayton Delaware Bay Denver Eastern N.C. East Tennessee Erie Florida West Coast | Fort Worth France Hamilton Houston Jacksonville Kansas City Los Vegas Lehigh Valley Los Angeles Council Maine Memphis Mexico Monterrey Miami Mid-Hudson Middle Tennessee Milwaukee/Madison/ N.E. Wisconsin Montreal Nashville Nebraska New Hampshire New Orleans N.Y./Long Island North Jersey Oakland-East Bay Oklahoma City Orlando Ottawa Palm Beach Philadelphia Phoenix | Pittsburgh Portland Princeton Puerto Rico & Virgin Islands Richland Rochester Sacramento St. Louis San Diego San Francisco Santa Clara Valley Schenectady Seattle Sharon Shreveport Southeastern Mich. Spokane Syracuse Tokyo Toledo Toronto Tucson Tulsa Twin Cities Utah Vancouver Virginia Mountain Wichita Winnipeg Worcester County NCA Council* |
| QEA-36 | Quantum Electronics | 4 | Boston Los Alamos | New Jersey Coast | Los Angeles Council |

*NCA Council = National Capital Area Council

| <u>Code</u> | <u>Group/Society Name</u> | <u>No. of Chapters</u> | <u>Section/Council Location</u> | | |
|-------------|-------------------------------|------------------------|---|---|---|
| R-7 | Reliability | 18 | Baltimore Binghamton Canaveral/Dayton Central New England Council Cleveland Chicago | Conneticut Florida West Coast Los Angeles Council Mohawk Valley Montreal New Jersey Coast N.Y./Long Island | North Jersey Philadelphia Santa Clara Valley/ San Francisco/ Oakland-East Bay Twin Cities NCA Council* |
| SU-20 | Sonics & Ultrasonics | 4 | Central New England Council | Pittsburgh Portland | Washington/Baltimore No. Virginia |
| SMC-28 | Systems, Man & Cybernetics | 18 | Central New England Council Cleveland Conneticut Dallas L.I./N.Y. Los Angeles Council | Mexico Milwaukee New Jersey Coast North Jersey Philadelphia Pittsburgh Schenectady | Santa Clara Valley/ San Francisco/ Oakland-East Bay Southeastern Mich. Tokyo Twin Cities NCA Council* |
| VT-6 | Vehicular Technology | 22 | Canton Central New England Council Chicago Cincinatti/Dayton Cleveland Columbus Dallas Denver | Florida West Coast Los Angeles Council Miami N.Y./L.I./No. Jersey New Jersey Coast Orlando Philadelphia Pittsburgh | Sacramento Santa Clara Valley/ San Francisco/ Oakland-East Bay Southeastern Mich. Toronto Vancouver NCA Council* |
| 30 | Groups/Societies | 693** | 137 Sections/Councils | | |

**Of this number, 138 Chapters are operated jointly by more than one Section/Council or more than one Group or Society. A total of 548 single or Joint Group/Society Chapters have been established as of 12/31/78.

*NCA Council = National Capital Area Council

SECTION D

Table 1 - Group/Society Affiliates, December 31, 1978; 5-Year Comparison

| Code No. | Group/Society Name | 12/31/78 | 12/31/77 | 12/31/76 | 12/31/75 | 12/31/74 |
|----------|--|----------|----------|----------|----------|----------|
| 1 | Acoustics, Speech & Signal Processing | 10 | 10 | 5 | 3 | 2 |
| 2 | Broadcast, Cable & Consumer Electronics | 2 | 2 | 2 | 1 | - |
| 3 | Antennas & Propagation | 1 | 1 | 1 | 1 | - |
| 4 | Circuits & Systems | 2 | 3 | 4 | 2 | 1 |
| 5 | Nuclear & Plasma Sciences | 172 | 163 | 160 | 151 | 115 |
| 6 | Vehicular Technology | 3 | 2 | 3 | 3 | 4 |
| 7 | Reliability | 12 | 11 | 10 | 10 | 11 |
| 9 | Instrumentation & Measurement | - | 2 | 1 | - | - |
| 10 | Aerospace & Electronic Systems | 7 | 8 | 6 | 7 | 6 |
| 12 | Information Theory | 10 | 9 | 6 | 7 | 6 |
| 13 | Industrial Electronics & Control Instrumentation | - | 2 | - | - | - |
| 14 | Engineering Management | 27 | 46 | 48 | 27 | 24 |
| 15 | Electron Devices | 6 | 7 | 35 | 37 | 43 |
| 16 | Computer | 3,313 | 2,278 | 1,566 | 1,184 | 797 |
| 17 | Microwave Theory & Techniques | 2 | 3 | 11 | 10 | 7 |
| 18 | Engineering in Medicine & Biology | 73 | 83 | 91 | 97 | 95 |
| 19 | Communications | 5 | 6 | 6 | 2 | 4 |
| 20 | Sonics & Ultrasonics | 11 | 13 | 14 | 15 | 18 |
| 21 | Components, Hybrids & Manufacturing Technology | 6 | 4 | 3 | 2 | 1 |
| 23 | Control Systems | 8 | 5 | 4 | 4 | 3 |
| 25 | Education | 1 | 1 | 1 | 2 | 1 |
| 26 | Professional Communication | 10 | 9 | 6 | 6 | 9 |
| 27 | Electromagnetic Compatibility | 4 | 4 | 5 | 3 | 1 |
| 28 | Systems, Man & Cybernetics | 22 | 22 | 19 | 18 | 25 |
| 29 | Geoscience Electronics | 2 | 4 | 2 | 1 | 1 |
| 31 | Power Engineering | - | 1 | - | - | - |
| 32 | Electrical Insulation | 5 | 5 | 8 | 10 | 9 |
| 33 | Magnetics | 59 | 66 | 68 | 75 | 80 |
| 34 | Industry Applications | 1 | 1 | 1 | 1 | - |
| 35 | *Manufacturing Technology | - | - | - | - | - |
| 36 | **Quantum Electronics & Applications | 36 | 34 | - | - | - |
| | Totals | 3,810 | 2,805 | 2,086 | 1,679 | 1,263 |

* The Manufacturing Technology Group and the Parts, Hybrids & Packaging Group merged in 1977 to form the Components, Hybrids & Manufacturing Technology Group.

** The former Quantum Electronics Council became the Quantum Electronics & Applications Group in 1977.

SECTION E

ORGANIZATIONAL UNITS OF THE IEEE, BY REGION - As of December 31, 1978

| Region Number: | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> | <u>8</u> | <u>9</u> | <u>10</u> | <u>Total</u> |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------|
| <u>1978</u> | | | | | | | | | | | |
| Sections | 22 | 25 | 42 | 23 | 23 | 35 | 18 | 18 | 17 | 19 | 242 |
| Subsections | 6 | 3 | 7 | 8 | 3 | 5 | - | - | 7 | 4 | 43 |
| Chapters | 107 | 92 | 56 | 59 | 61 | 98 | 34 | 9 | 9 | 23 | 548 * |
| Affiliations & Councils | 1 | 1 | 3 | - | - | 2 | 3 | - | 2 | 1 | 13 |
| Student Branches | 69 | 48 | 56 | 47 | 44 | 49 | 39 | 33 | 28 | 13 | 426 |
| <hr/> | | | | | | | | | | | |
| <u>1977</u> | | | | | | | | | | | |
| Sections | 22 | 25 | 42 | 23 | 21 | 36 | 17 | 18 | 17 | 14 | 235 |
| Subsections | 6 | 3 | 7 | 7 | 6 | 5 | 1 | - | 7 | 5 | 49 |
| Chapters | 105 | 89 | 53 | 59 | 58 | 95 | 32 | 9 | 8 | 22 | 530 * |
| Affiliations & Councils | 1 | 1 | 3 | - | - | 2 | 3 | - | 2 | 1 | 13 |
| Student Branches | 69 | 48 | 55 | 47 | 43 | 53 | 38 | 33 | 31 | 12 | 429 |
| <hr/> | | | | | | | | | | | |
| <u>1976</u> | | | | | | | | | | | |
| Sections | 22 | 25 | 42 | 23 | 21 | 36 | 17 | 18 | 14 | 11 | 229 |
| Subsections | 6 | 3 | 7 | 6 | 6 | 5 | 1 | - | 7 | 5 | 46 |
| Chapters | 106 | 87 | 52 | 59 | 57 | 99 | 31 | 8 | 8 | 20 | 527 * |
| Affiliations & Councils | 1 | 1 | 2 | - | - | 2 | 3 | - | 2 | 1 | 12 |
| Student Branches | 71 | 52 | 55 | 48 | 44 | 58 | 38 | 33 | 31 | 12 | 443 |
| <hr/> | | | | | | | | | | | |
| <u>1975</u> | | | | | | | | | | | |
| Sections | 22 | 24 | 42 | 23 | 21 | 36 | 17 | 18 | 14 | 8 | 225 |
| Subsections | 6 | 4 | 7 | 6 | 6 | 5 | 1 | - | 5 | 7 | 47 |
| Chapters | 106 | 88 | 50 | 60 | 57 | 90 | 28 | 6 | 8 | 19 | 512 * |
| Affiliations & Councils | 1 | - | 2 | - | - | 2 | 3 | - | 2 | - | 10 |
| Student Branches | 71 | 50 | 53 | 47 | 43 | 58 | 37 | 31 | 37 | 9 | 436 |

* Joint Chapters of two or more Sections or two or more Group/Societies are counted as one Chapter.

Table 1 - IEEE Technical Publications Output - 1978

| <u>Regular Journals</u> | <u>Editorial Pages</u> | <u>Advertising Pages (1)</u> | <u>Total Pages</u> | <u>Number of Papers</u> | <u>Number of Letters</u> |
|------------------------------|----------------------------|----------------------------------|------------------------|-----------------------------|------------------------------|
| IEEE SPECTRUM | 795 | 765 | 1,560 | 82 | 170 |
| PROCEEDINGS OF THE IEEE | 1,704 | 36 | 1,740 | 97 | 142 |
| IEEE TRANSACTIONS & JOURNALS | <u>28,082</u> | <u>---</u> | <u>28,082</u> | <u>3,595</u> | <u>1,138</u> |
| Subtotals | 30,581 | 801 | 31,382 | 3,774 | 1,450 |
| <u>Other Publications</u> | | | | | |
| Conference Records(2) | 50,350 | --- | 50,350 | 8,908 | --- |
| IEEE PRESS Books | 2,472 | --- | 2,472 | 270 | --- |
| Preprints | 5,940 | --- | 5,940 | 752 | --- |
| Standards | 2,704 | --- | 2,704 | 35 | --- |
| Group/Society Newsletters(3) | <u>1,204</u> | <u>---</u> | <u>1,204</u> | <u>84</u> | <u>---</u> |
| Subtotals | 62,670 | --- | 62,670 | 10,049 | --- |
| <u>Totals</u> | <u>93,251</u> | <u>801</u> | <u>94,052</u> | <u>13,823</u> | <u>1,450</u> |

- (1) Includes Institute-related advertising material.
(2) Includes all 1978 Conference Records, actual and projected.
(3) Produced through IEEE Publishing Services Department.

Table 2 - IEEE TRANSACTIONS and JOURNALS - 1978

| | <u>Number of Issues</u> | <u>Editorial Pages</u> | <u>Number of Papers</u> | <u>Number of Letters</u> |
|--|-----------------------------|----------------------------|-----------------------------|------------------------------|
| ACOUSTICS, SPEECH, & SIGNAL PROCESSING | 6 | 640 | 63 | 54 |
| AEROSPACE & ELECTRONIC SYSTEMS | 6 | 1,256 | 88 | 66 |
| ANTENNAS & PROPAGATION | 6 | 924 | 112 | 60 |
| AUTOMATIC CONTROL | 6 | 1,138 | 142 | 77 |
| BIOMEDICAL ENGINEERING | 6 | 598 | 54 | 34 |
| BROADCASTING | 4 | 146 | 20 | 1 |
| CABLE TELEVISION | 4 | 192 | 12 | 3 |
| CIRCUITS AND SYSTEMS | 12 | 1,144 | 119 | 58 |
| COMMUNICATIONS | 12 | 1,846 | 187 | 59 |
| COMPONENTS, HYBRIDS, & MANUFACTURING TECHNOLOGY | 4 | 458 | 69 | 16 |
| COMPUTERS | 12 | 1,278 | 97 | 99 |
| CONSUMER ELECTRONICS | 4 | 638 | 68 | 26 |
| EDUCATION | 4 | 272 | 56 | 20 |
| ELECTRICAL INSULATION | 6 | 482 | 50 | 20 |
| ELECTROMAGNETIC COMPATIBILITY | 4 | 546 | 50 | 21 |
| ELECTRON DEVICES | 12 | 1,458 | 184 | 69 |
| ENGINEERING MANAGEMENT | 4 | 118 | 21 | 19 |
| GEOSCIENCE ELECTRONICS | 4 | 368 | 54 | 13 |
| INDUSTRIAL ELECTRONICS & CONTROL INSTRUMENTATION | 4 | 402 | 54 | 46 |
| INDUSTRY APPLICATIONS | 6 | 726 | 103 | 9 |
| INFORMATION THEORY | 6 | 816 | 70 | 14 |
| INSTRUMENTATION & MEASUREMENT | 4 | 500 | 112 | 17 |
| MAGNETICS | 6 | 1,214 | 294 | 32 |
| MICROWAVE THEORY & TECHNIQUES | 12 | 1,100 | 160 | 47 |
| NUCLEAR SCIENCE | 6 | 1,680 | 300 | 13 |
| OCEANIC ENGINEERING | 4 | 228 | 22 | 27 |
| PLASMA SCIENCE | 4 | 616 | 65 | 1 |
| POWER APPARATUS & SYSTEMS | 6 | 2,454 | 279 | -- |
| PROFESSIONAL COMMUNICATION | 4 | 188 | 58 | 7 |
| QUANTUM ELECTRONICS | 12 | 1,070 | 165 | 52 |
| RELIABILITY | 4 | 398 | 133 | 13 |
| SOFTWARE ENGINEERING | 6 | 556 | 54 | 5 |
| SOLID STATE CIRCUITS | 6 | 950 | 130 | 32 |
| SONICS & ULTRASONICS | 6 | 426 | 49 | 12 |
| SYSTEMS, MAN & CYBERNETICS | 12 | 952 | 66 | 91 |
| VEHICULAR TECHNOLOGY | <u>4</u> | <u>304</u> | <u>35</u> | <u>5</u> |
| <u>Totals</u> | 228 | 28,082 | 3,595 | 1,138 |

Table 3 - 1978 Nonmember Subscriptions to IEEE Periodicals
(Data as of 12/31/78)

| <u>Periodicals</u> | <u>Regions 1-6</u> | <u>Region 7</u> | <u>Region 8</u> | <u>Region 9</u> | <u>Region 10</u> | <u>Total</u> |
|---|--------------------|-----------------|-----------------|-----------------|------------------|--------------|
| SPECTRUM | 1487 | 198 | 1041 | 130 | 682 | 3538 |
| PROCEEDINGS | 1592 | 142 | 1807 | 131 | 1102 | 4774 |
| <u>TRANSACTIONS and JOURNALS</u> | | | | | | |
| ACOUSTICS, SPEECH, & SIGNAL PROCESSING | 758 | 82 | 695 | 50 | 411 | 1996 |
| AEROSPACE & ELECTRONIC SYSTEMS | 768 | 73 | 695 | 34 | 415 | 1985 |
| ANTENNAS & PROPAGATION | 767 | 80 | 734 | 85 | 473 | 2139 |
| AUTOMATIC CONTROL | 829 | 82 | 868 | 88 | 694 | 2561 |
| BIOMEDICAL ENGINEERING | 873 | 83 | 638 | 55 | 443 | 2092 |
| BROADCASTING | 600 | 69 | 410 | 43 | 316 | 1438 |
| CABLE TELEVISION | 567 | 67 | 349 | 27 | 276 | 1286 |
| CIRCUITS & SYSTEMS | 801 | 75 | 777 | 70 | 583 | 2306 |
| COMMUNICATIONS | 889 | 100 | 922 | 94 | 616 | 2621 |
| COMPONENTS, HYBRIDS, & MANUFACTURING TECHNOLOGY | 666 | 60 | 481 | 40 | 347 | 1594 |
| COMPUTERS | 1114 | 120 | 1252 | 111 | 761 | 3358 |
| CONSUMER ELECTRONICS | 644 | 64 | 502 | 44 | 393 | 1647 |
| EDUCATION | 599 | 66 | 407 | 46 | 345 | 1463 |
| ELECTRICAL INSULATION | 618 | 61 | 433 | 49 | 358 | 1519 |
| ELECTROMAGNETIC COMPATIBILITY | 628 | 67 | 467 | 38 | 300 | 1500 |
| ELECTRON DEVICES | 830 | 73 | 808 | 53 | 572 | 2336 |
| ENGINEERING MANAGEMENT | 732 | 75 | 478 | 52 | 363 | 1700 |
| GEOSCIENCE ELECTRONICS | 622 | 79 | 358 | 37 | 286 | 1382 |
| INDUSTRIAL ELECTRONICS & CONTROL INSTRUMENTATION | 663 | 81 | 535 | 91 | 477 | 1847 |
| INDUSTRY APPLICATION | 740 | 81 | 578 | 92 | 530 | 2021 |
| INFORMATION THEORY | 807 | 82 | 771 | 59 | 515 | 2234 |
| INSTRUMENTATION & MEASUREMENT | 813 | 93 | 734 | 91 | 582 | 2313 |
| MAGNETICS | 727 | 67 | 593 | 36 | 464 | 1887 |
| MICROWAVE THEORY & TECHNIQUES | 779 | 79 | 808 | 67 | 506 | 2239 |
| NUCLEAR SCIENCE | 761 | 80 | 631 | 39 | 395 | 1906 |
| OCEANIC ENGINEERING | 608 | 65 | 356 | 26 | 280 | 1335 |
| PLASMA SCIENCE | 603 | 57 | 383 | 25 | 281 | 1349 |
| POWER APPARATUS & SYSTEMS | 810 | 102 | 901 | 157 | 706 | 2676 |
| PROFESSIONAL COMMUNICATION | 634 | 71 | 376 | 33 | 288 | 1402 |
| QUANTUM ELECTRONICS | 816 | 73 | 720 | 40 | 437 | 2086 |
| RELIABILITY | 743 | 73 | 696 | 55 | 425 | 1992 |
| SOFTWARE ENGINEERING | 910 | 94 | 716 | 56 | 488 | 2264 |
| SOLID STATE CIRCUITS | 811 | 74 | 731 | 60 | 548 | 2224 |
| SONICS & ULTRASONICS | 679 | 65 | 472 | 37 | 341 | 1594 |
| SYSTEMS, MAN & CYBERNETICS | 774 | 81 | 605 | 57 | 493 | 2010 |
| VEHICULAR TECHNOLOGY | 603 | 69 | 409 | 34 | 308 | 1423 |
| <u>Total TRANSACTIONS and JOURNALS</u> | <u>26586</u> | <u>2763</u> | <u>22289</u> | <u>2071</u> | <u>16016</u> | <u>69725</u> |
| <u>Magazines</u> | | | | | | |
| COMMUNICATIONS SOCIETY MAGAZINE | 579 | 55 | 335 | 31 | 260 | 1260 |
| COMPUTER | 1096 | 128 | 849 | 81 | 503 | 2657 |
| ENGINEERING MANAGEMENT REVIEW | 568 | 54 | 316 | 27 | 248 | 1213 |
| "All" Group/Society Periodicals* | 535 | 53 | 289 | 23 | 243 | 1143 |

*These are subscriptions to the full array of Group/Society periodicals. They are included in the above numbers for individual titles.

Table 4 - Microfiche Subscriptions
(Data as of 12/31/78)

| Periodicals | Member | Nonmember | Total |
|---------------------------|-------------|-------------|-------------|
| SPECTRUM | 344 | 36 | 380 |
| PROCEEDINGS | 779 | 53 | 832 |
| TRANSACTIONS and JOURNALS | 5073 | 1992 | 7065 |
| Magazines | 462 | 58 | 520 |
| Totals | 6658 | 2139 | 8797 |