

COPYRIGHT WARNING & RESTRICTIONS

THE COPYRIGHT LAW OF THE UNITED STATES (TITLE 17, UNITED STATES CODE) GOVERNS THE MAKING OF PHOTOCOPIES OR OTHER REPRODUCTIONS OF COPYRIGHTED MATERIAL.

UNDER CERTAIN CONDITIONS SPECIFIED IN THE LAW, LIBRARIES AND ARCHIVES ARE AUTHORIZED TO FURNISH A PHOTOCOPY OR OTHER REPRODUCTION. ONE OF THESE SPECIFIED CONDITIONS IS THAT THE PHOTOCOPY OR REPRODUCTION IS NOT TO BE “USED FOR ANY PURPOSE OTHER THAN PRIVATE STUDY, SCHOLARSHIP, OR RESEARCH.” IF A, USER MAKES A REQUEST FOR, OR LATER USES, A PHOTOCOPY OR REPRODUCTION FOR PURPOSES IN EXCESS OF “FAIR USE” THAT USER MAY BE LIABLE FOR COPYRIGHT INFRINGEMENT,

THIS INSTITUTION RESERVES THE RIGHT TO REFUSE TO ACCEPT A COPYING ORDER IF, IN ITS JUDGMENT, FULFILLMENT OF THE ORDER WOULD INVOLVE VIOLATION OF COPYRIGHT LAW.

PRINTING NOTE: IF YOU DO NOT WISH TO PRINT THIS PAGE, THEN SELECT “PAGES FROM: FIRST PAGE # TO: LAST PAGE #” ON THE PRINT DIALOG SCREEN

APPENDIX ~~A~~

While the amounts appropriated by the Regents for the life of the Board have been listed in Appendix A as an integral part of the activity of the Board of Regents, it seems wise to have a more detailed breakdown of the income for the college extending from 1914-15 to 1954. The records for tuition paid in the early years, 1914-15, is not completely available.

It should be noted that a contract was made with the Federal Board for Vocational Education to train veterans of the First World War, extending from 1919 to 1930. During that time also the school received certain moneys from the Federal Government under the Smith-Hughes Act on account of work which the school was then giving in the general field of vocational education. The high water mark of the Federal payment for vocational education came in 1926 and as the figures show diminished rather rapidly thereafter as the state and county vocational schools took over from the Newark Technical School work of a strictly vocational nature. So that in 1930 the college had its last payment from the Federal Government and its classes thereafter were not in any single instance vocational in character.

It is perhaps nothing more than a coincidence that in 1931 the first payment by the Board of Regents was made. The amount entered opposite the year 1931 was the sum total of the requests covering 1930 and 1931. The legislature in 1930 did not vote

the appropriation as suggested by the Board of Regents but added it to the appropriation asked for in 1931.

The totals given represent not only the tuition and appropriations but certain items covering the sale of books, student fees, and so forth. The tabulation follows:

| <u>Year Ending</u> | <u>Tuition Evening Technical and Special Courses</u> | <u>Tuition College Under- graduate</u> | <u>Tuition College Graduate</u> | <u>Tuition Federal Board</u> | <u>Smith Hughes Act</u> | <u>State Board of Regents and/or State Board of Education</u> | <u>Other State and City Grants</u> | <u>Total Income</u> |
|------------------------|--|--|---|--------------------------------------|---------------------------------|---|--|-------------------------|
| 4/30/15 | \$ 2,596 | \$ | \$ | \$ | \$ | \$ | \$ 30,000 | \$ 35,000 |
| 4/30/16 | 2,989 | | | | | | 30,000 | 41,000 |
| 4/30/17 | 4,067 | | | | | | 30,000 | 39,000 |
| 4/30/18 | 4,111 | | | | | | 30,000 | 39,000 |
| 4/30/19 | 5,759 | | | | | | 30,000 | 44,000 |
| 6/30/20 | 24,306 | | | 40,620 | 1,345 | | 50,000 | 134,000 |
| 6/30/21 | 20,018 | 3,812 | | 50,891 | 966 | | 60,000 | 147,000 |
| 6/30/22 | 22,124 | 5,497 | | 39,767 | 3,561 | | 79,148 | 163,000 |
| 6/30/23 | 26,255 | 7,265 | | 31,597 | 3,201 | | 50,000 | 126,000 |
| 6/30/24 | 28,196 | 10,868 | | 15,503 | 4,542 | | 60,000 | 127,000 |
| 6/30/25 | 32,396 | 13,635 | | 520 | 4,420 | | 60,000 | 119,000 |
| 6/30/26 | 40,128 | 16,789 | | 160 | 5,427 | | 70,000 | 139,000 |
| 6/30/27 | 42,349 | 21,910 | | -(22) | 2,479 | | 80,000 | 153,000 |
| 6/30/28 | 56,293 | 30,867 | | | 1,968 | | 90,000 | 189,000 |
| 6/30/29 | 63,826 | 37,583 | | | 1,002 | | 90,000 | 202,000 |
| 6/30/30 | 77,262 | 43,441 | | | 561 | | 100,000 | 232,000 |
| 6/30/31 | 82,545 | 58,060 | | | | 18,700 | 105,000 | 273,000 |
| 6/30/32 | 70,099 | 75,501 | | | | 28,610 | 105,000 | 287,000 |
| 6/30/33 | 51,119 | 86,023 | | | | 38,400 | 95,000 | 279,000 |
| 6/30/34 | 50,140 | 98,025 | | | | 34,560 | 80,000 | 271,000 |

| <u>Year Ending</u> | <u>Tuition Evening Technical and Special Courses</u> | <u>Tuition College Under- graduate</u> | <u>Tuition College Graduate</u> | <u>Tuition Federal Board</u> | <u>Smith Hughes Act</u> | <u>State Board of Regents and/or State Board of Education</u> | <u>Other State and City Grants</u> | <u>Total Income</u> |
|------------------------|--|--|---|--------------------------------------|---------------------------------|---|--|-------------------------|
| 6/30/35 | \$ 47,742 | \$104,790 | \$ | \$ | \$ | \$ 34,560 | \$ 80,000 | \$275,000 |
| 6/30/36 | 47,545 | 118,464 | | | | 38,940 | 80,000 | 294,000 |
| 6/30/37 | 64,220 | 128,204 | | | | 38,940 | 85,000 | 327,000 |
| 6/30/38 | 84,420 | 131,872 | | | | 57,426 | 95,000 | 379,000 |
| 6/30/39 | 74,613 | 137,717 | | | | 55,000 | 99,250 | 381,000 |
| 6/30/40 | 78,162 | 162,719 | | | | 55,000 | 99,250 | 413,000 |
| 6/30/41 | 87,528 | 184,784 | | | | 65,000 | 99,250 | 460,000 |
| 6/30/42 | 94,084 | 194,135 | | | | 70,000 | 99,250 | 492,000 |
| 6/30/43 | 48,285 | 195,369 | | | | 82,703 | 99,250 | 459,000 |
| 6/30/44 | 26,642 | 152,706 | | | | 91,700 | 99,250 | 408,000 |
| 6/30/45 | 25,943 | 113,567 | | | | 104,801 | 105,100 | 397,000 |
| 6/30/46 | 26,835 | 265,066 | 4,998 | | | 94,505 | 105,100 | 601,000 |
| 6/30/47 | 14,187 | 574,309 | 16,453 | | | 154,300 | 105,100 | 998,000 |
| 6/30/48 | 15,005 | 642,690 | 23,853 | | | 145,000 | 105,100 | 1,213,000 |
| 6/30/49 | 24,157 | 657,098 | 28,790 | | | 173,984 | 109,300 | 1,123,000 |
| 6/30/50 | 40,336 | 604,475 | 53,686 | | | 255,944 | 119,006 | 1,187,000 |
| 6/30/51 | 49,450 | 523,476 | 73,731 | | | 277,898 | 129,203 | 1,175,000 |
| 6/30/52 | 82,156 | 447,340 | 83,011 | | | 398,663 | 139,606 | 1,355,000 |
| 6/30/53 | 85,697 | 478,513 | 85,229 | | | 593,905 | 155,799 | 1,618,000 |
| 6/30/54 | 120,525 | 512,951 | 92,056 | | | 621,125 | 159,657 | 1,771,000 |

FEDERAL GOVERNMENT AGENCY PAYMENTS TO THE COLLEGE
FOR WARTIME TRAINING AND OTHER SERVICES

| | <u>Federal Defense/War Training</u> | <u>Army Specialized Training Program</u> | <u>Veterans' Selection & Guidance</u> | <u>Army Ordinance Contract</u> | <u>U. S. Navy Contract</u> | <u>National Defense Committee</u> |
|-----------|---|--|---|--|------------------------------------|---|
| 1941-1942 | \$ 9,705 | \$ | \$ | \$ | \$ | \$ |
| 1942-1943 | 22,351 | | | | | |
| 1943-1944 | 27,371 | 18,962 | | | | 551 |
| 1944-1945 | 24,785 | 79 | 7,620 | 6,643 | | 6,999 |
| 1945-1946 | 2,818 | | 75,831 | 1,822 | | 581 |
| 1946-1947 | | | 56,686 | | 833 | |
| 1947-1948 | 52,104 | 16,000 | 53,496 | 3,200 | | 2,000 |
| 1948-1949 | | | 43,440 | | | |
| 1949-1950 | | | 40,477 | | | |
| 1950-1951 | | | 17,985 | | | |

The growth of the institution is properly reflected in these tabulations.

Student enrollment is somewhat deceptive in that groups of students vary over a wide range in hours of attendance.

There are certain notes taken from the early board meeting minutes and from some of the early financial reports which would seem to be of more than passing interest. The following items are copies from the first book of minutes of the Board of Trustees. On the meeting of May 19, 1887, the Treasurer presented his annual report showing the balance at the end of the year of \$6,509.86. In the

minutes of May 17, 1888, the Auditing Committee reported that it had examined the reports of the Treasurer up to May 14, 1888, and found it correct. Following is a summary of the report now on file with the Secretary:

| | | |
|--|--------------------|--------------------|
| On hand May, 1887 | \$6,509.86 | |
| Rec. from State for 1886-1887 | 123.10 | |
| Rec. from State for 1887-1888 | 4,565.00 | |
| | <u>11,197.96</u> | |
| Rec. Subscriptions on account 1887-1888 | 4,375.85 | |
| | <u>\$15,573.81</u> | |
| Paid by Checks | \$7,249.23 | |
| Cash in Bank | <u>8,324.58</u> | <u>\$15,573.81</u> |

The first mention in the Minute Book of an appropriation from the City of Newark is made in the Treasurer's report of May 9, 1889. It would appear that at that time there were some subscriptions still coming in and it is not quite clear why the State of New Jersey did not meet in full payment from the appropriation of the City of Newark.

"Treasurer's Account with Newark Technical School to May, 1889."

| | | |
|------------------------------------|-----------------|--------------------|
| Cash balance May, 1888 | \$ 8,324.58 | |
| Collected May 11 to August, 1888 | 186.25 | |
| From State of N. J. Sept. 10, 1888 | 4,319.10 | |
| From City of Newark Sept. 20, 1888 | 5,000.00 | |
| From Colton merchandise sold | 290.00 | |
| From Subscribers | <u>3,165.80</u> | <u>\$21,285.73</u> |
| Paid Accounts per Statements | \$ 8,057.96 | |
| Balance Essex County Bank | 10,634.93 | |
| Balance Merchants Bank | <u>2,592.84</u> | <u>\$21,285.73</u> |

Another type of early financial report is the following which was found in the minutes of September 4, 1891. The items shown are the only ones giving financial

reports, covering a year in each case, in the minute book between the years of 1884 and 1913.

"The Director presented his Annual Report and Balance Sheet for the year ending April 30, 1891."

BALANCE SHEET

| | <u>Dr.</u> |
|------------------------------------|--------------------|
| Cash on Hand May 1, 1890 | \$1,397.47 |
| Received from State - 1889-1890 | 5,000.00 |
| Received from State - 1890-1891 | 5,000.00 |
| Received from Sales of Merchandise | 400.65 |
| Received from Tuition Fees | 100.00 |
| | <u>\$11,898.12</u> |
| | <u>Cr.</u> |
| Salaries | \$ 5,792.00 |
| Expenses | 1,421.66 |
| Lighting | 566.62 |
| Merchandise | 361.19 |
| Building | 150.00 |
| Real Estate | 71.79 |
| Library | 111.10 |
| Dept. of Chemistry & Physics | 55.32 |
| Dept. of Drawing | 32.92 |
| Furniture | 4.68 |
| | <u>\$ 8,567.28</u> |
| Petty Cash on Hand April 30 | 1.09 |
| | <u>\$ 8,568.37</u> |
| Balance on Hand May 1, 1891 | <u>3,329.75</u> |
| | <u>\$11,898.12</u> |

APPENDIX 6

Notes on The Board of Trustees of Schools for Industrial Education of Newark, New Jersey

The members are listed in the order of first appointment by the Governor of the State of New Jersey.

The Governor of the state and the Mayor of the city of Newark, New Jersey, are ex-officio members of the Board. The Governor was listed as the President of the Board from 1885-1917. Later one of the appointed members was elected President by the members of the Board.

EX-OFFICIO MEMBERS OF THE BOARD AND APPROXIMATE TERMS OF OFFICE

Governors

| | |
|--------------------|-----------|
| Leon Abbett | 1885-1887 |
| Robert E. Green | 1887-1890 |
| Leon Abbett | 1890-1893 |
| George T. Werts | 1893-1896 |
| John W. Griggs | 1896-1898 |
| Foster M. Voorhees | 1898-1902 |
| Franklin Murphy | 1902-1905 |
| Edward C. Stokes | 1905-1908 |
| John Franklin Fort | 1908-1911 |
| Woodrow Wilson | 1911-1913 |
| James F. Fielder | 1914-1917 |
| Walter E. Edge | 1917-1919 |
| William H. Runyon | 1919-1920 |
| Edward I. Edwards | 1920-1923 |
| George S. Silser | 1923-1926 |
| A. Harry Moore | 1926-1929 |
| Morgan F. Larson | 1929-1932 |
| A. Harry Moore | 1932-1935 |
| Harold G. Hoffman | 1935-1938 |
| A. Harry Moore | 1938-1941 |
| Charles Edison | 1941-1944 |
| Walter E. Edge | 1944-1947 |
| Alfred E. Driscoll | 1947-1954 |
| Robert B. Mayner | 1954- |

Mayors

| | |
|--------------------------|-----------|
| Joseph C. Haynes | 1884-1894 |
| Julius A. Lebluscher | 1894-1896 |
| James E. Seymour | 1896-1903 |
| Henry M. Doremus | 1903-1907 |
| Jacob Hausling | 1907-1915 |
| Thomas L. Raymond | 1915-1918 |
| Charles P. Gillen | 1918-1921 |
| Alexander Archibald | 1921- |
| Frederick C. Breidenbach | 1922-1925 |
| Thomas L. Raymond | 1925-1928 |
| Jerome T. Congleton | 1928-1933 |
| Meyer C. Ellenstein | 1933-1941 |
| Vincent J. Murphy | 1941-1949 |
| Ralph A. Vilani | 1949-1953 |
| Leo P. Carlin | 1953- |

APPOINTED MEMBERS OF THE BOARD
APPROXIMATE TERM OF OFFICE *

| | | <u>Term of Office</u> | <u>Industrial or Professional Connection</u> |
|------------------------|--------|---------------------------|--|
| Edward Goeller | V. P. | 1884-1894 | Comptr. State Banking Company |
| Moses Bigelow | Treas. | 1884-1897 | Pres. Home Brewing Company |
| William H. Barringer | Sec'y | 1884-1898 | M. Bigelow & J. C. Kirtland Varnish Manufacturers |
| Augustus F. R. Martin | M. | 1884-1894 | Superintendent of Schools |
| " | V. P. | 1894-1897 | Newark, New Jersey |
| James F. Connelly | M. | 1885-1886 | Banker and Broker |
| Edward Weston | M. | 1884-1895 | McCormick & Connelly Patent and Enamelled Leather |
| George H. Phillips | M. | 1884-1904 | President, Weston Electrical Instrument Corporation |
| Pierson G. Dodd | M. | 1886-1887 | Treasurer, Hewes & Phillips Iron Works |
| George W. Ketcham | M. | 1887-1907 | Member of Common Council Finance Board |
| " | V. P. | 1907-1911 | Vice-President, |
| James L. Hays | M. | 1894-1897 | Central Stamping Company |
| " | V. P. | 1897-1907 | Postmaster, Newark, N. J. |
| James W. Miller | M. | 1895-1899 | Manufacturing Jeweler |
| Daniel T. Campbell | M. | 1895-1897 | President, |
| " | Treas. | 1897-1904 | Watts-Campbell Company |
| Francis M. Tichenor | M. | 1899-1906 | Attorney, Counsellor-at-Law |
| Benjamin Atha | M. | 1898-1902 | President, Newark Steel Works of Benjamin Atha & Ellingsworth Company |
| John B. Stobaeus | M. | 1898-1910 | Manufacturer of Chemicals |
| " | Treas. | 1910-1918 | Charles Cooper & Company |
| Moses Straus | M. | 1899-1910 | Manufacturer of Leather |
| George R. Howe | M. | 1902-1903 | M. Straus & Sons |
| " | Treas. | 1903-1910 | Manufacturing Jeweler |
| Moses Plant | M. | 1904-1919 | Merchant, L. S. Plant Company |
| Abram B. Garner | M. | 1904-1908 | Manager, Murphy Varnish Company |
| Samuel E. Robertson | M. | 1906-1911 | Practising Physician |
| " | V. P. | 1911-1917 | |
| " | M. | 1917-1928 | |
| Franklin Phillips | M. | 1908-1914 | President, Hewes & Phillips Iron Works |
| Abram Rothschild | M. | 1909-1921 | Manufacturer of Leather |
| Peter Campbell | M. | 1910-1917 | Stengel & Rothschild |
| " | V. P. | 1917-1927 | President, Nairn Linoleum Company |
| " | Pres. | 1927-1928 | |
| Frederick L. Eberhardt | M. | 1910-1928 | President, Gould & Eberhardt |
| " | V. P. | 1928-1943 | Machine Tools |
| " | Pres. | 1943-1946 | |
| Herbert P. Gleason | M. | 1911-1918 | Manufacturer of Shoes |
| " | Treas. | 1918-1929 | Johnson & Murphy |
| John A. Furman | M. | 1911-1927 | Superintendent, Celluloid Company |

APPOINTED MEMBERS OF THE BOARD (Cont.)

| | | <u>Term of Office</u> | <u>Industrial or Professional Connection</u> |
|--------------------------|-------------|---------------------------|---|
| Halsey M. Larter | M. | 1914-1927 | Manufacturing Jeweler Larter & Sons |
| William L. Morgan | M. | 1919-1927 | Counsellor-at-Law |
| " | V. P. | 1927-1928 | |
| " | Pres. | 1928-1943 | |
| William C. Stobaeus | M. | 1924-1925 | Secretary, |
| " | Asst Treas. | 1925-1929 | Charles Cooper & Company |
| " | Treas. | 1929-1938 | Chemicals |
| John E. Clark | M. | 1927-1936 | President, Clark Thread Company |
| Felix Fuld | M. | 1927-1929 | L. Banberger & Company |
| Edward F. Weston | M. | 1927-1944 | Chairman of the Board, |
| " | V. P. | 1944-1946 | Weston Electrical Instrument |
| " | Pres. | 1946- | Corporation |
| Robert Campbell | M. | 1928-1930 | Financier - Retired |
| " | Asst Treas. | 1930-1938 | |
| " | Treas. | 1938-1946 | |
| " | V. P. | 1946- | |
| Cyrus Loutrel | M. | 1929-1938 | President, National Lock |
| " | Asst Treas. | 1938-1946 | Washer Company |
| Thomas H. McCarter | M. | 1929-1944 | President of the Board |
| Joseph M. Byrne, Jr. | M. | 1935- | Public Service Electric & Gas Company |
| George W. Mc Rao | M. | 1938-1948 | Chairman of the Board, Joseph M. Byrne Company |
| Robert G. Cowan | M. | 1943-1946 | Vice President & General Manager |
| " | Treas. | 1946- | New Jersey Bell Telephone Company |
| Frederick O. Runyon | M. | 1943- | President, The National Newark & |
| Edward F. Bataille | Asst Treas. | 1946- | Essex Banking Company of Newark, N. J. |
| Chester C. Campbell | M. | 1946- | Professional Engineer |
| Frederick W. Birkenhauer | M. | 1946-1948 | NEWARK EVENING NEWS |
| William J. Brennan, Jr. | M. | 1948- | President, Otis Elevator Company |
| John H. Yauch, Jr. | M. | 1948-1954 | President, Wagner Baking Corporation |
| | | 1954- | Justice, Supreme Court of New Jersey |
| | | | Attorney, Counsellor-at-Law |
| | | | Member Oilhoolley, Yauch, Fagan |

* Because of conflicting records it has been impossible to determine exactly the terms of office of some of the first members of the Board of Trustees. This was due, to a considerable extent, to the changes in the method of appointing members of the Board. The dates, however, are believed to be substantially correct.

APPENDIX D.

ENROLLMENT

Evening - Technical School and Special Courses

| | <u>Number Enrolled N.T.S.</u> | <u>Special Courses</u> | <u>Diplomas</u> | <u>Certificates</u> | <u>Graduates</u> |
|-------------|---------------------------------------|----------------------------|-----------------|---------------------|------------------|
| Spring 1885 | 88 | | | | |
| 1885-1886 | 125 | | | | |
| 1890-1891 | 286 | | 2 | 4 | 6 |
| 1895-1896 | 204 | | 6 | 8 | 14 |
| 1900-1901 | 274 | | 5 | 9 | 14 |
| 1905-1906 | 331 | | 3 | 14 | 17 |
| 1910-1911 | 393 | | 1 | 12 | 13 |
| 1915-1916 | 404 | | 4 | 14 | 18 |
| 1920-1921 | 763 | | 12 | 21 | 33 |
| 1925-1926 | 1005 | | 35 | 18 | 53 |
| 1930-1931 | 1685 | | 70 | — | 70 |
| 1935-1936 | 787 | | 92 | — | 92 |
| 1940-1941 | 1163 | | 140 | — | 140 |
| 1945-1946 | 142 | 767 | 20 | — | 20 |
| 1950-1951 | — | 366 | — | — | — |
| 1953-1954 | — | 818 | — | 36 | 36 |

STUDENT ENROLLMENT - GRADUATES - DEGREES

Newark College of Engineering Undergraduate - Day and Evening

| | <u>ENROLLMENT</u> | | <u>DEGREES</u> | | <u>Professional Engineer</u> | <u>Honorary D. Sc.</u> |
|-----------|----------------------------|-----------------|----------------|--------------|----------------------------------|----------------------------|
| | <u>Under- Graduate</u> | <u>Graduate</u> | <u>B. E.</u> | <u>M. S.</u> | | |
| 1919-1920 | 23 | | | | | |
| 1920-1921 | 54 | | | | | |
| 1921-1922 | 65 | | | | | |
| 1922-1923 | 93 | | 11 | | | |
| 1923-1924 | 125 | | 14 | | | |
| 1924-1925 | 145 | | 18 | | | |
| 1925-1926 | 175 | | 16 | | | |
| 1926-1927 | 230 | | 31 | | 4 | 1 |
| 1927-1928 | 272 | | 30 | | 1 | |
| 1928-1929 | 324 | | 37 | | 4 | |
| 1929-1930 | 368 | | 45 | | 1 | |
| 1930-1931 | 442 | | 70 | | 3 | |
| 1931-1932 | 552 | | 79 | | 8 | |
| 1932-1933 | 626 | | 76 | | 1 | |
| 1933-1934 | 658 | | 78 | | 3 | |
| 1934-1935 | 707 | | 96 | | 9 | |
| 1935-1936 | 766 | | 120 | | 5 | 2 |
| 1936-1937 | 815 | | 177 | | 3 | |
| 1937-1938 | 817 | 18 | 129 | | 3 | |
| 1938-1939 | 849 | 39 | 150 | | 5 | |
| 1939-1940 | 942 | 51 | 148 | | 1 | |
| 1940-1941 | 1088 | 120 | 151 | | 1 | |
| 1941-1942 | 1258 | 127 | 153 | | 2 | |
| 1942-1943 | • 1156 | 94 | 167 | | 4 | |
| 1943-1944 | 632 | 83 | 122 | | | |
| 1944-1945 | • 404 | 44 | 58 | | | |
| 1945-1946 | 1229 | 113 | 48 | | 3 | |
| 1946-1947 | 2274 | 235 | 131 | | 1 | |
| 1947-1948 | 2298 | 260 | 200 | | | 1 |
| 1948-1949 | 2388 | 293 | 321 | 4 | 4 | 2 |
| 1949-1950 | 2423 | 392 | 396 | 26 | 2 | 2 |
| 1950-1951 | 2161 | 474 | 329 | 62 | 1 | |
| 1951-1952 | 2092 | 568 | 280 | 88 | | 3 |
| 1952-1953 | 2130 | 602 | 258 | 100 | 1 | |
| 1953-1954 | 2257 | 700 | 233 | 110 | 1 | 2 |

• estimated

APPENDIX 8

NUMBER OF STAFF MEMBERS

Administration - Faculty and Instruction Staff - Lecturers

| | <u>NEWARK TECHNICAL SCHOOL</u> | | <u>NEWARK COLLEGE OF ENGINEERING</u> | | | <u>GRADUATE</u> | |
|-----------|--------------------------------|------------------------------|--------------------------------------|--|------------------------------|-----------------------------|----------------|
| | <u>Adminis- tration</u> | <u>Instruction Staff</u> | <u>Adminis- tration</u> | <u>Undergraduate Day and Evening Faculty & Instructors</u> | <u>Special Lecturers</u> | <u>Adminis- tration</u> | <u>Faculty</u> |
| 1885-1886 | 1 | 3 | | | | | |
| 1890-1891 | 1 | 8 | | | | | |
| 1895-1896 | 1 | 8 | | | | | |
| 1900-1901 | 2 | 11 | | | | | |
| 1905-1906 | 2 | 14 | | | | | |
| 1910-1911 | 2 | 22 | | | | | |
| 1915-1916 | 4 | 28 | | | | | |
| 1920-1921 | 10 | 35 | 10 | 20 | | | |
| 1925-1926 | 7 | 64 | 8 | 17 | | | |
| 1930-1931 | 9 | 112 | 8 | 29 | | | |
| 1935-1936 | 9 | 64 | 13 | 37 | | | |
| 1940-1941 | 6 | 63 | 16 | 66 | 12 | e 5 | 25 |
| 1945-1946 | e 8 | 60 | 18 | 51 | 15 | e 5 | 13 |
| 1950-1951 | e 8 | 53 | 26 | 141 | 30 | e 8 | 24 |
| 1954-1955 | e 8 | 115 | 20 | 130 | 34 | e 9 | 45 |

e estimated

* Duplications of names have been eliminated in Bulletin used, but are not eliminated as between Day and Evening Bulletins, nor between Newark Technical School, Special Courses, and Graduate Courses.

APPENDIX E

Scholarships

In the bulletin for 1906-1907 we find the first announcement regarding scholarships, as follows:

"Beginning with the school year 1907-1908 two scholarships will be given annually as follows:

- (1) To the student of the first year class showing the greatest improvement during the year, tuition for the second year class.
- (2) To the student of the second year class showing the greatest improvement during the year, tuition for the third year class.

These scholarships shall be available only to those students who are taking the full course of study, and shall be awarded at the close of each school year by a jury composed of three members of the Manufacturing Jewelers Association, with the Director of the School as an ex-officio member.

The instructors in the course shall constitute an advisory committee to the jury.

All scholarships held by students shall be subject to such rules as may be adopted from time to time by the Trustees of the School."

No other announcement of scholarships seems to have been made until we find this statement in the bulletin for the year 1920-1921:

"Many young men attending evening school show much promise along technical lines. To enable these men to follow a regular professional technical course leading to a degree, scholarships may be granted to evening students who wish to take up professional work in the College of Engineering. The scholarships have a minimum value of \$125.00 per year. Applications should be made to the Director not later than September 1.

For the year 1920-1921 at least three scholarships are available:
The Alumni Scholarship granted by the Alumni of the Newark Technical School to an evening student who wishes to take professional work in the College of Engineering; the Henry J. Reusch Scholarships granted to students in the evening school who have graduated in the General Technical Course and wish to take professional work in the College of Engineering."

The number of scholarships available increased from year to year as shown in the following statements:

In 1930-1931 twenty-five scholarships were offered to qualified applicants.

Among these were ten donated by individual citizens and by the Class of 1927, N.C.E. Also there were two granted by the Board of Trustees of the College to recipients to be chosen by the Newark Council of the Boy Scouts of America.

Three other scholarships to be granted to graduates of the Newark Technical School were donated in memory of Henry J. Reusch and in honor of Charles A. Colton.

In 1940-1941 twenty-five scholarships were again offered to qualified applicants. Among these grants, not previously mentioned were: William F. Hoffman scholarships and seven scholarships by the will of Herbert P. Gleason.

By 1950-1951 there were available several additional scholarships under the John Christopher Denman Scholarship Fund and the John A. Schieck Memorial Fund.

Loan Funds were also available to worthy students in limited numbers under the Colton Memorial Scholarship Fund; the Newark College of Engineering Scholarship Fund;

the Abraham Rothschild Loan Fund; and the Sanford L. Kahn Loan Fund.

The Boy Scout Scholarships and the Herbert P. Gleason Scholarships were available also, as previously mentioned.

The College bulletin for 1954-1955 shows a listing of items of financial aid available which is reproduced here in the following paragraphs:

"Through the years the College has received applications for admission from students who showed a definite need for financial assistance in meeting their college expenses. For such needy young men who also possess the ability to carry on engineering study satisfactorily, scholarships are available.

BOY SCOUT SCHOLARSHIPS

The Board of Trustees has granted two scholarships, the recipients of which are to be chosen from Scouts in Newark, Belleville, and Irvington by the Robert Treat Council of Boy Scouts of America.

HERBERT P. GLEASON SCHOLARSHIPS

By the will of Herbert P. Gleason several scholarships are available for young men of character and ability.

COLTON MEMORIAL SCHOLARSHIP

Commencing with the scholastic year 1952-1953 a scholarship has been established in memory of Dr. Charles A. Colton, the first director of Newark Technical School.

The Newark College of Engineering Alumni Association recently effected an amalgamation of the Colton Memorial Scholarship Fund and the College Alumni Scholarship Fund. The combined funds are now administered by the College Alumni Scholarship Fund Trustees.

It is anticipated that each year this Colton Memorial Scholarship will be awarded for one year to the sophomore at the college who ranked number 1 in his class as a freshman.

ESSEX COUNTY ENGINEERING SOCIETY SCHOLARSHIPS

The Society will provide one or more scholarships in the amount of \$150.00 annually, divided equally between two successive

semesters. The student must have maintained a satisfactory academic record through one or more years at this institution and must need financial assistance.

Other things being equal, the son or daughter of a professional engineer shall be given preference. The student must be willing to take such tests as may be requested by the college committee appointed to select the recipient. The recipient will automatically become the nominee for the same award for the next year unless he no longer requires financial assistance, in which case the award will be made to another qualified student. The final selection of each candidate will be made by a committee of the faculty of the college.

HAMBO SCHOLARSHIP

This special scholarship award is granted to the member of a graduating class of Irvington High School who earns the highest four year average in science during his high school work.

The recipient of this scholarship must register for the course at the Newark College of Engineering leading to the degree of Bachelor of Science in Electrical Engineering. The award has a value of \$625 per year for each year of our four year college course.

The Hambo Scholarship became operative for the college year which started in September of 1952. The recipient will continue to enjoy this privilege until the four years of college work are completed, provided the condition of satisfactory progress each year is met.

Requests for information regarding annual Hambo Scholarship awards should be directed to the Principal of Irvington High School.

UNION CARBIDE SCHOLARSHIP

Union Carbide and Carbon Corporation Scholarships in Electrical or Mechanical Engineering, sponsored by the Linde Air Products Company, a Division of Union Carbide and Carbon Corporation.

This scholarship carries a per annum scholarship of full tuition plus \$200.00 to the recipient, awarded to a student for his senior year of study in Electrical or Mechanical Engineering.

JOHN CHRISTOPHER DENHAM SCHOLARSHIP FUND

This fund has been established to provide a scholarship for an evening school student who wishes to take professional work in the College of Engineering.

JOHN A. SCHIECK MEMORIAL FUND

By the will of Caroline D. Schieck, a scholarship fund has been established in the name of her brother, John A. Schieck. From time to time several scholarships will be available from this fund.

THOMAS E. HEATHCOTE SCHOLARSHIP FUND

Mr. Thomas E. Heathcote has created a fund to provide scholarship awards at Newark College of Engineering. The candidates for the awards are to be nominated by the Rotary Clubs of Hawthorne, Rockaway, Netcong-Stanhope, and Denville.

MATERIALS HANDLING PRIZE

The Silent Hoist and Crane Company Materials Handling Award is presented annually for the best papers on the subject of materials handling. The award is made from proceeds from a trust established by the Wunsch Foundation, Inc. of Brooklyn.

APPENDIX B

Post Graduate Work at Newark College of Engineering

The Newark College of Engineering offered several special graduate and advanced courses to qualified persons starting in 1937-1938. This work was designed to prepare the engineer for special duties.

While the College did not then award graduate degrees, credit for this work was given by institutions granting such degrees.

Starting in 1940-1941 an agreement between this College and Stevens Institute of Technology provided for students to complete their work for the Masters Degree at the Graduate School of Stevens Institute after taking graduate credits at this College.

In 1946 the New Jersey State Board of Education authorized the establishment of the Graduate Division of the Newark College of Engineering and the granting, by its Board of Trustees, of the degree of Master of Science in Chemical, Civil, Electrical, and Mechanical Engineering; and in 1949, Master of Science with a major in the fields of Chemical, Civil, Electrical, Mechanical, and Management Engineering.

The Graduate Division of this College is filling a definite need in Newark and vicinity. This is shown by the growth of the student body in this division from 18 students in 1937-1938 to 700 students in 1953-1954.