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**OUR 1962 GRADUATES**

**TEN YEARS LATER**

**COLLEGE OF ENGINEERING  
UNIVERSITY OF ILLINOIS  
AT URBANA-CHAMPAIGN**



Ten years after graduation from college is an important milestone in the career of an engineer. By that time the uncertainties of the first few years have been reconciled, and, in most cases, a career pattern has been established.

The information in the following report covers the 1962 graduates of the College of Engineering at the University of Illinois at Urbana.

We are sorry for the delay in getting the completed report to the graduates who furnished us with the information which made it possible to complete the report. There were many delays and circumstances conspired to make an earlier publication date impossible. We thank each and every one of the graduates for their participation and their patience.

It is our hope that the following information will be both interesting and helpful.

(Mrs.) Pauline V. Chapman

A handwritten signature in cursive script that reads "Pauline V. Chapman". The signature is written in dark ink and is positioned to the left of the typed name and title.

Placement Director  
College of Engineering  
University of Illinois  
Urbana, Illinois 61801



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TEN-YEAR SALARY PROGRESS OF ENGINEERING GRADUATES WHO RECEIVED A B.S. DEGREE IN 1962

	Number of Questionnaires Sent	Number of Questionnaires Returned	Percent of Return	Military Service	Currently in Graduate School	Miscellaneous	Number Employed	Average Monthly Salary -- 1972	High Monthly Salary -- 1972	Low Monthly Salary -- 1972	Average Starting Salary -- 1962	Percent of Increase -- 1962-1972
All Engineers	521 <sup>1</sup>	297	57.00%	3.70% 11	1.01% 3	11.01% <sup>2</sup> 3	94.28% 280	\$1552.	\$4250. <sup>4</sup>	\$ 700. <sup>4</sup>	\$571.	171.80% <sup>3</sup>
Aero. E.	40	21	52.50%	2	-	1	18	1508.	1999.	1150.	610	147.21%
Ag. E.	16	12	75.00%	-	-	-	12	1231.	1615.	875.	517.	138.10%
Ceram. E.	15	10	66.67%	-	-	-	10	1475.	2000.	1150.	545.	170.64%
Civil E.	80	55	68.75%	2	1	-	52	1644.	4250.	960.	535.	207.29%
Elec. E.	170	78	45.88%	2	-	1	75	1551.	3000.	834.	592.	161.99%
E. Mech.	13	8	61.54%	-	-	-	8	1485.	1800.	700.	531.	179.66%
E. Phys.	23	12	52.17%	-	-	1	11	1534.	2200.	950.	750.	104.53%
Gen. E.	29	21	72.41%	-	1	-	20	1678.	3000.	1250.	555.	202.34%
Ind. E.	18	12	66.67%	1	-	-	11	1841.	2500.	1200.	560.	228.75%
Mech. E.	100	59	59.00%	4	1	-	54	1505.	2500.	1086.	568.	164.96%
Met. E.	12	7	58.33%	-	-	-	7	1346.	1500.	1095.	565.	138.23%
Min. E.	5	2	40.00%	-	-	-	2	1387.	1400.	1375.	525.	164.19%

<sup>1</sup>544 original number sent - 22 were returned for incorrect address (2 A.A.E., 2 C.E., 13 E.E., 1 E.M., 3 M.E., 1 Min.E.)

<sup>2</sup>3 unemployed (1 A.A.F., 1 E.E., 1 E.P.)

<sup>3</sup>Increase in starting salaries: 1962 to 1972 - 55.63%

<sup>4</sup>Highest salary - \$4250./mo. (C.E.) - works for one company and has his own allied company as well

Lowest salary - \$700./mo. (E.M.) - has changed job 5 times; now works for consulting firm

SALARY COMPARISON FIGURES OF THOSE GRADUATES WHO HAVE COMPLETED AN ADVANCED DEGREE SINCE 1962 AND THOSE WHO HAVE NOT

	Total Employed	No Advanced Degree	M.S. in Original Field	M.S. in Other Technical Field	M.S. in Non-Technical Field	Ph.D. in Original Field	Ph.D. in Other Technical Field	Ph.D. in Non-Technical Field	M.B.A.	Law	Other
All Engineers Average Salary	280 \$1552.	150 \$1520.	59 <sup>1</sup> \$1537.	14 <sup>1</sup> \$1614.	1 <sup>1</sup> \$1315.	11 <sup>1</sup> \$1542.	8 <sup>1</sup> \$1567.	1 <sup>1</sup> \$1300.	31 <sup>1</sup> \$1717.	3 <sup>1</sup> \$1790.	2 <sup>1</sup> \$1250.
Aero. & Astro. Eng. Average Salary	18 1508.	6 1462.	4 1436.	3 1633.	-	2 1867.	-	1 1300.	-	1 1522.	1 1170.
Agricultural Eng. Average Salary	12 1231.	6 1234.	4 1188.	1 1615.	-	1 1000.	-	-	-	-	-
Ceramic Eng. Average Salary	10 1475.	6 1381.	1 1388.	-	-	1 1800.	-	-	2 1638.	-	-
Civil Eng. Average Salary	52 1644.	29 1665.	16 1553.	1 1250.	-	1 1500.	1 2300.	-	3 1997.	-	1 1330.
Electrical Eng. Average Salary	75 1551.	44 1512.	20 1601.	-	-	4 1372.	-	-	5 1692.	2 1925.	-
Eng. Mechanics Average Salary	8 1485.	1 700.	4 1555.	2 1581.	-	1 1800.	-	-	-	-	-
Eng. Physics Average Salary	11 1534.	1 950.	1 1552.	2 2070.	-	-	7 1462.	-	-	-	-
General Eng. Average Salary	20 1678.	12 1641.	-	2 1646.	-	-	-	-	6 1763.	-	-
Industrial Eng. Average Salary	11 1841.	7 1707.	1 1800.	-	-	-	-	-	3 2166.	-	-
Mechanical Eng. Average Salary	54 1505.	31 1483.	6 1611.	3 1416.	1 1315.	1 1640.	-	-	12 1537.	-	-
Metallurgical Eng. Average Salary	7 1346.	5 1341.	2 1357.	-	-	-	-	-	-	-	-
Mining Eng. Average Salary	2 1387.	2 1387.	-	-	-	-	-	-	-	-	-

<sup>1</sup>Of the 130 who completed an advanced degree 71 (54.62%) completed the degree as a full-time student and 59 (45.38%) as a part-time student while employed.





## CORRELATION BETWEEN SCHOLASTIC AVERAGE AND FINANCIAL PROGRESS 1962-1972

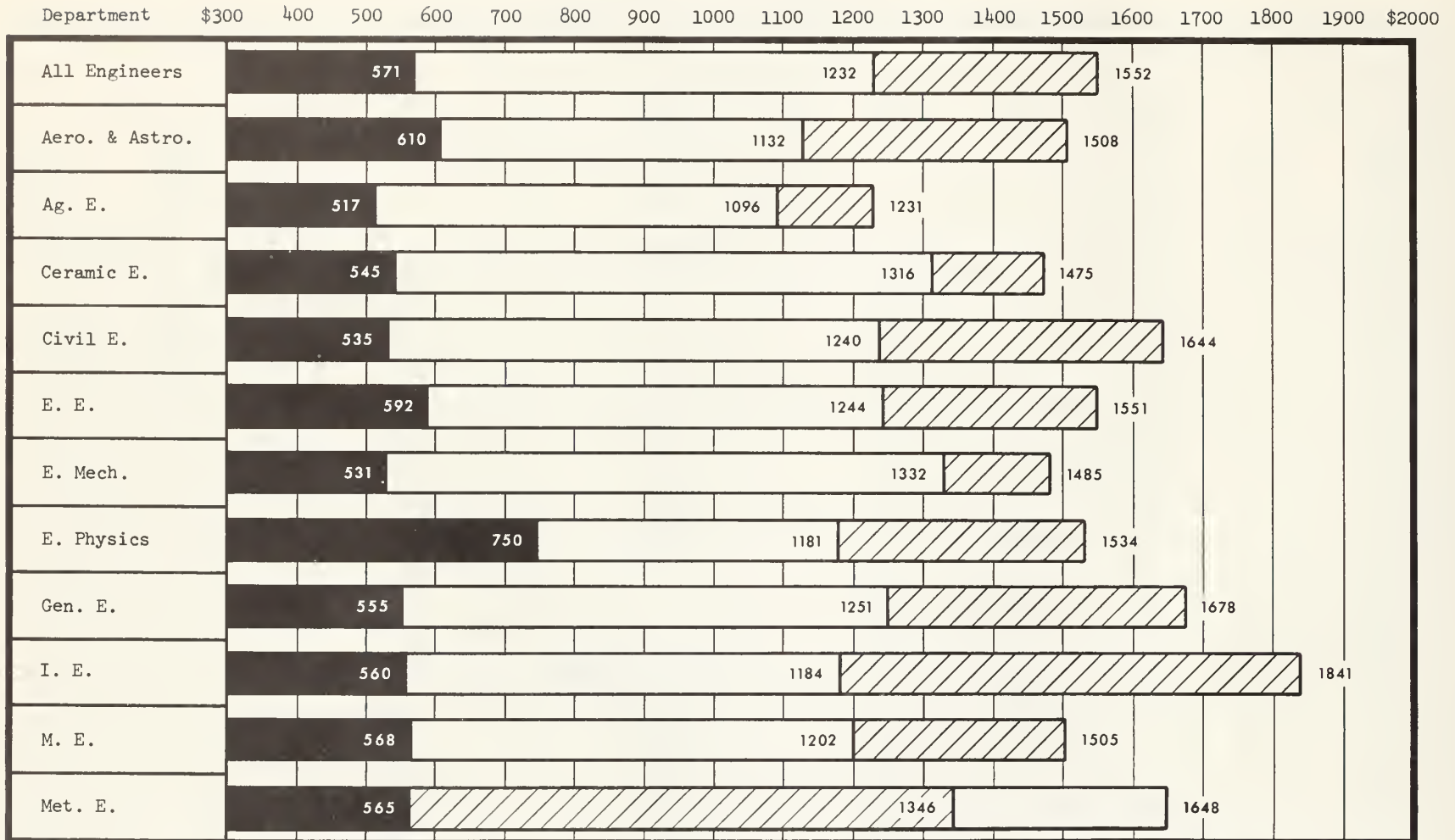
	Total Employed	1st Decile 5.000 - 4.371	2nd Decile 4.370 - 4.054	3rd Decile 4.053 - 3.889	4th Decile 3.888 - 3.763	5th Decile 3.762 - 3.609	6th Decile 3.608 - 3.500	7th Decile 3.499 - 3.395	8th Decile 3.394 - 3.259	9th Decile 3.258 - 3.154	10th Decile 3.153 - 3.000
All Engineers	280 \$1552	28 \$1558.	28 \$1550.	28 \$1521.	28 \$1587.	28 \$1514.	28 \$1597.	28 \$1533.	28 \$1548.	28 \$1559.	28 \$1553.
Aero. E.	18 1508.	2 1731.	- -	3 1499.	2 1400.	2 1574.	2 1379.	2 1552.	2 1701.	3 1323.	- -
Ag. E.	12 1231.	4 1070.	- -	2 1287.	1 1615.	2 1091.	1 1320.	2 1400.	- -	- -	- -
Ceram. E.	10 1475.	- -	1 1800.	- -	1 1388.	1 1500.	3 1241.	- -	2 1531.	2 1638.	- -
Civil E.	52 1644.	5 1786.	6 1610.	3 1473.	6 1545.	5 1735.	3 1426.	6 1849.	6 1454.	7 1805.	5 1566.
Elec. E.	75 1551.	8 1579.	9 1437.	11 1643.	11 1564.	7 1524.	8 1639.	4 1437.	6 1528.	7 1556.	4 1481.
E. Mech.	8 1485.	- -	2 1470.	- -	- -	2 1766.	1 1615.	2 1065.	1 1666.	- -	- -
E. Physics	11 1534.	8 1602.	1 1940.	2 1059.	- -	- -	- -	- -	- -	- -	- -
Gen. E.	20 1678.	- -	3 1472.	1 1875.	- -	2 1535.	2 2645.	3 1646.	2 1750.	- -	7 1497.
Ind. E.	11 1841.	1 1500.	- -	1 1800.	1 1500.	- -	1 2500.	- -	1 2500.	3 1677.	3 1806.
Mech. E.	54 1505.	- -	6 1620.	3 1530.	5 1860.	5 1371.	6 1442.	7 1526.	8 1414.	5 1272.	9 1536.
Met. E.	7 1346.	- -	- -	2 1321.	1 1380.	- -	1 1472.	2 1214.	- -	1 1500.	- -
Min. E.	2 1387.	- -	- -	- -	- -	2 1387.	- -	- -	- -	- -	- -

RANGE OF 1972 SALARIES OF 1962 ENGINEERING GRADUATES

The monthly salaries are divided according to the degree held in 1972.

<u>B.S. Degree</u>		<u>Salary</u>	<u>Total</u>	<u>Salary</u>	<u>Total</u>	<u>Salary</u>	<u>Total</u>	<u>Salary</u>	<u>Total</u>	<u>Law Degree</u>	
		\$1430	1	\$1000	2	\$1417	1	\$1125	1		
<u>Salary</u>	<u>Total</u>	1420	1	950	1	1408	1	1100	1	<u>Salary</u>	<u>Total</u>
\$4250	1	1412	1	700	1	1400	3	1013	1	\$2200	1
3560	1	1409	1		150	1388	1	1000	1	1650	1
2500	1	1400	4			1380	1	994	1	1522	1
2290	1	1383	1			1375	1		20		3
2250	1	1375	2			1359	1				
2200	2	1368	1	<u>M.S. Degree</u>		1358	1				
2020	1	1360	2			1337	1	<u>M.B.A. Degree</u>		<u>Other</u>	
2000	7	1358	1	<u>Salary</u>	<u>Total</u>	1334	1	<u>Salary</u>	<u>Total</u>	<u>Salary</u>	<u>Total</u>
1958	1	1352	2	\$3000	1	1315	1	\$3000	1	\$1330	1
1950	1	1350	2	2500	2	1308	1	2833	1	1170	1
1900	1	1343	1	2200	1	1300	1	2500	2		2
1850	1	1340	1	2083	1	1266	1	2200	1		
1800	4	1339	1	1999	1	1260	2	2100	1		
1780	2	1334	1	1950	1	1257	1	2000	3		
1770	1	1333	3	1940	1	1250	3	1759	1		
1768	1	1325	1	1890	1	1200	1	1750	2		
1750	3	1320	1	1875	2	1000	1	1660	1		
1720	1	1318	1	1800	4	960	1	1640	1		
1700	5	1310	1	1760	1	875	1	1600	1		
1683	1	1300	11	1733	1	834	1	1585	1		
1670	2	1298	1	1670	1		74	1538	1		
1668	1	1290	1	1666	1			1500	2		
1665	1	1275	2	1650	1			1450	1		
1650	3	1270	1	1630	1			1400	3		
1645	1	1260	1	1615	2			1375	1		
1634	1	1256	1	1610	1	<u>Ph.D. Degree</u>		1305	1		
1620	2	1250	5	1583	1	<u>Salary</u>	<u>Total</u>	1300	2		
1600	5	1235	1	1570	1	\$2300	1	1291	1		
1583	1	1203	1	1552	1	1850	1	1276	1		
1575	1	1200	7	1550	3	1825	1	1230	1		
1573	1	1183	1	1532	1	1892	1	1115	1		
1567	1	1180	2	1525	1	1842	1		31		
1550	1	1170	1	1500	7	1800	2				
1525	1	1166	1	1490	1	1733	1				
1500	8	1150	2	1480	1	1700	1				
1478	1	1104	1	1470	1	1640	1				
1472	1	1100	1	1457	1	1625	1				
1450	3	1095	1	1440	2	1500	1				
1433	1	1086	1	1430	1	1466	1				
				1420	1	1300	2				

## AVERAGE MONTHLY SALARIES



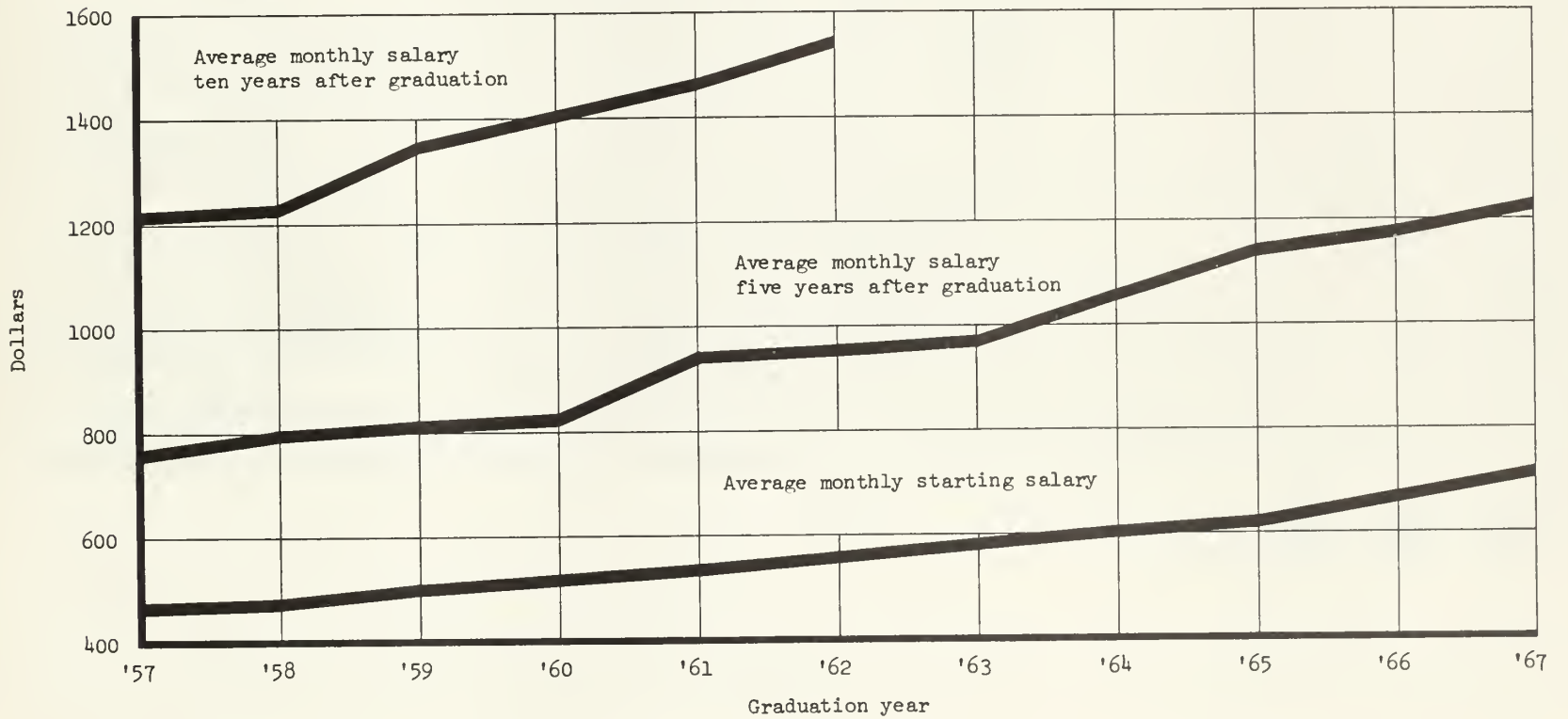
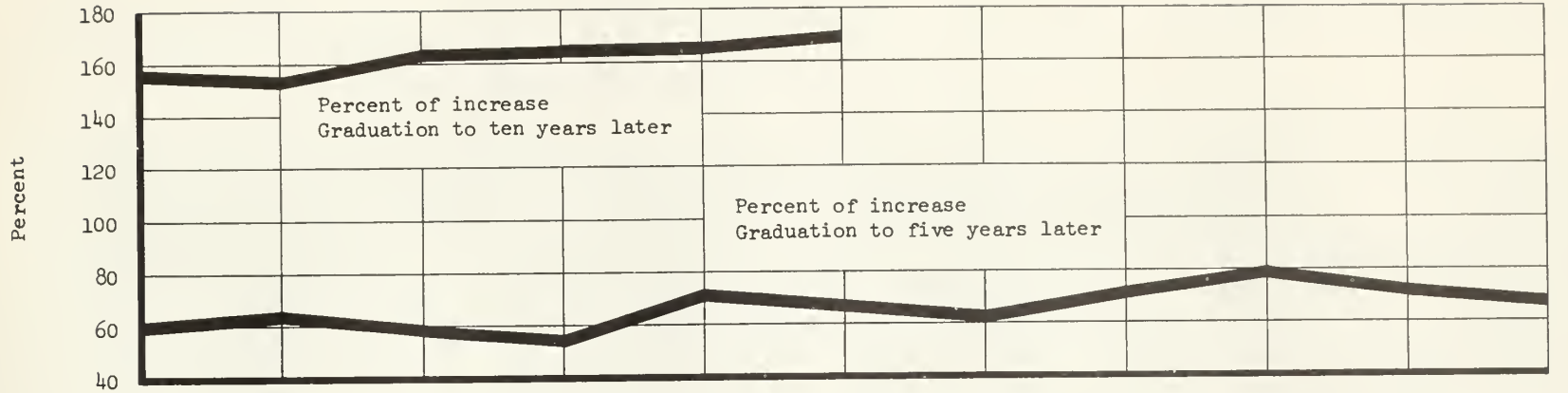
At graduation-1961

After 5 years-1966

After 10 years-1971



### A STUDY OF AVERAGE MONTHLY SALARIES



## JOB CHANGES SINCE 1962

Total Percent of Change		No Change				One Change			Two Changes			Three Changes			Four or More Changes		
		Total Employed	Number Employed	Total Percent of No Change	Average Salary	Number Employed	Total Percent of Change	Average Salary	Number Employed	Total Percent of Change	Average Salary	Number Employed	Total Percent of Change	Average Salary	Number Employed	Total Percent of Change	Average Salary
56.43%	All Engineers	280	122	43.57%	\$1566.	77	27.50%	\$1502.	45	16.07%	\$1584.	26	9.28%	\$1652.	10 <sup>1</sup>	3.57%	\$1354.
61.11%	Aero. E.	18	7	38.89%	1489.	3	16.67%	1598.	2	11.11%	1585.	6	33.33%	1459.	-	-	-
41.67%	Ag. E.	12	7	58.33%	1388.	4	33.33%	968.	1	8.33%	1183.	-	-	-	-	-	-
60.00%	Ceram. E.	10	4	40.00%	1584.	2	20.00%	1237.	4	40.00%	1484.	-	-	-	-	-	-
67.30%	Civil E.	52	17	32.69%	1791.	16	30.77%	1685.	7	13.46%	1433.	8	15.38%	1608.	4	7.69%	1300.
48.00%	Elec. E.	75	39	52.00%	1510.	19	25.33%	1467.	10	13.33%	1749.	5	6.67%	1767.	2	2.67%	1618.
62.50%	E. Mech.	8	3	37.50%	1613.	2	25.00%	1557.	1	12.50%	1800.	1	12.50%	1430.	1	12.50%	700.
45.45%	E. Phys.	11	6	54.54%	1388.	3	27.27%	1725.	1	9.09%	1825.	1	9.09%	1552.	-	-	-
60.00%	Gen. E.	20	8	40.00%	1699.	7	35.00%	1515.	4	20.00%	1892.	1	5.00%	1800.	-	-	-
63.63%	Ind. E.	11	4	36.36%	2000.	4	36.36%	1480.	2	18.18%	1916.	1	9.09%	2500.	-	-	-
55.55%	Mech. E.	54	24	44.44%	1512.	13	24.07%	1502.	11	20.37%	1442.	3	5.55%	1739.	3	5.55%	1466.
85.71%	Met. E.	7	1	14.29%	1472.	4	57.14%	1339.	2	28.57%	1297.	-	-	-	-	-	-
-	Min. E.	2	2	100.00%	1387.	-	-	-	-	-	-	-	-	-	-	-	-

<sup>1</sup>6 made 4 changes - \$1450. (2 C.E., 1 E.E., 3 M.E.)

3 made 5 changes - \$1092. (2 C.E., 1 E.M.)

1 made 7 changes - \$1567. (1 E.E.)

REASONS FOR CHANGING POSITIONS

Some attempt has been made to combine the following list of reasons. Many respondents said the same things in different words. For greater ease of evaluation, the reasons have been divided into categories.

REASONS COVERING ACTUAL WORK ASSIGNMENTS

- 68 better opportunity
- 20 change in field of interest
- 19 did not like work
- 19 no chance for advancement
- 11 more responsibility
- 10 to gain experience
- 5 no job challenge
- 1 did not use engineering skills
- 1 more independence
- 1 too specialized

LAY-OFFS

- 32 lay-offs
- 5 contract terminated
- 4 company closed
- 1 company relocated
- 1 temporary position

PERSONAL REASONS

- 16 to relocate
- 7 started own company
- 6 did not wish to relocate
- 3 became founder in new company
- 3 did not wish to travel
- 3 poor neighborhood
- 2 opportunity for travel
- 1 desired long vacation
- 1 extended family separation

FURTHER EDUCATION

- 25 to return to school

REASONS CONCERNING COMPANY POLICIES

- 4 poor management
- 3 poor organization
- 2 dissatisfied with training program
- 2 more benefits
- 1 conflict with company policies
- 1 lack of expected promotion
- 1 more security
- 1 poor basis for seniority system
- 1 poor supervision
- 1 poor working conditions

SALARY

- 39 more money
- 6 insufficient salary for accomplishments

MILITARY SERVICE

- 4 entered military service

## PRESENT GEOGRAPHIC LOCATION OF 1962 ENGINEERING GRADUATES

Location	All Engineers	Percent	Geographical Location 1962	Aero. E.	Ag. E.	Ceram. E.	Civil E.	Elec. E.	E. Mech.	E. Phys.	Gen. E.	Ind. E.	Mech. E.	Met. E.	Min. E.
Illinois	91	32.50%	33.63%	-	5	4	22	24	1	1	4	6	23	-	1
California	51	18.22%	24.38%	10	1	1	8	14	3	3	3	-	7	1	-
Iowa	11	3.93%	3.40%	-	2	-	1	6	-	-	1	-	1	-	-
Michigan	11	3.93%	.93%	1	-	1	2	1	-	-	-	-	5	1	-
Minnesota	10	3.57%	2.47%	-	1	1	-	3	-	-	2	-	3	-	-
Missouri	9	3.21%	.61%	2	-	-	1	1	-	-	-	-	4	-	1
Wisconsin	9	3.21%	4.32%	-	3	-	1	-	1	-	3	-	1	-	-
Texas	8	2.86%	.61%	-	-	-	-	5	1	-	-	-	2	-	-
Colorado	7	2.50%	.93%	1	-	-	4	1	-	-	-	-	-	1	-
Ohio	7	2.50%	5.25%	-	-	-	-	2	1	1	2	-	-	1	-
Arizona	6	2.14%	-	-	-	-	1	4	-	-	1	-	-	-	-
Pennsylvania	6	2.14%	2.78%	-	-	2	1	1	-	1	1	-	-	-	-
Indiana	5	1.79%	2.47%	-	-	-	2	-	-	1	-	-	1	1	-
Massachusetts	5	1.79%	.31%	1	-	1	-	3	-	-	-	-	-	-	-
New Jersey	4	1.43%	3.09%	-	-	-	2	1	-	1	-	-	-	-	-
Tennessee	4	1.43%	.93%	-	-	-	1	1	-	-	-	-	2	-	-
Washington (State)	4	1.43%	5.56%	-	-	-	1	1	-	-	-	-	1	1	-
Florida	3	1.07%	.93%	-	-	-	-	3	-	-	-	-	-	-	-
Kentucky	3	1.07%	-	-	-	-	1	-	-	-	-	1	1	-	-
New York	3	1.07%	3.09%	-	-	-	-	-	-	-	1	1	-	1	-
Alabama	2	.71%	-	1	-	-	-	-	-	1	-	-	-	-	-
Connecticut	2	.71%	.61%	-	-	-	-	-	-	-	-	-	2	-	-
Delaware	2	.71%	.93%	-	-	-	-	-	-	1	-	-	1	-	-
Kansas	2	.71%	-	1	-	-	-	1	-	-	-	-	-	-	-
Nebraska	2	.71%	-	-	-	-	1	-	-	-	-	1	-	-	-
New Mexico	2	.71%	.31%	-	-	-	-	-	-	1	1	-	-	-	-
Virginia	2	.71%	.61%	-	-	-	-	2	-	-	-	-	-	-	-
Washington, D.C.	2	.71%	.31%	-	-	-	1	-	-	-	1	-	-	-	-
Arkansas	1	.36%	-	-	-	-	1	-	-	-	-	-	-	-	-
Georgia	1	.36%	-	1	-	-	-	-	-	-	-	-	-	-	-
Maryland	1	.36%	.31%	-	-	-	1	-	-	-	-	-	-	-	-
Mississippi	1	.36%	.31%	-	-	-	-	-	1	-	-	-	-	-	-
N. Carolina	1	.36%	-	-	-	-	-	-	-	-	-	1	-	-	-
Oregon	1	.36%	-	-	-	-	-	-	-	-	-	1	-	-	-
Vermont	1	.36%	-	-	-	-	-	1	-	-	-	-	-	-	-
Oklahoma	-	-	.31%	-	-	-	-	-	-	-	-	-	-	-	-
Utah	-	-	.61%	-	-	-	-	-	-	-	-	-	-	-	-
Totals	280	100.00%		18	12	10	52	75	8	11	20	11	54	7	2



## THE EMPLOYED 1962 GRADUATES ARE NEW EMPLOYED BY THE FOLLOWING TYPES OF COMPANIES

Type of Company	All Engineers	Percent	1972 Average Salary	Aero. E.	Ag. E.	Ceram. E.	Civil E.	Elec. E.	E. Mech.	E. Phys.	Gen. E.	Ind. E.	Mech. E.	Met. E.	Min. E.
Aircraft, Missile, & Space	40	14.29%	\$1450.	12 \$1436.	-	-	1 \$1500.	13 \$1496.	2 \$1527.	-	1 \$1600.	-	10 \$1383.	1 \$1352.	-
Federal Government	22	7.86%	1576.	1 1770.	2 \$1410.	-	6 1580.	4 1645.	1 1666.	-	1 1600.	-	7 1536.	-	-
Consulting Engineers	17	6.07%	1654.	-	1 875.	-	12 1737.	1 2200.	1 700.	1 \$2200.	-	-	1 1300.	-	-
Communications Equipment	16	5.71%	1595.	-	-	-	1 2300.	13 1531.	-	-	1 1640.	-	1 1683.	-	-
Schools	15	5.36%	1260.	1 1300.	2 1204.	1 \$1150.	1 1358.	5 1232.	-	5 1306.	-	-	-	-	-
Electronics	14	5.00%	1583.	1 1570.	-	-	-	10 1596.	-	-	1 2000.	1 \$1333.	1 1291.	-	-
Metals & Metal Products	13	4.64%	1392.	-	-	-	-	1 1305.	-	1 950.	-	2 1750.	5 1388.	4 1350.	-
Heavy Equipment	12	4.28%	1539.	-	3 1300.	1 1500.	1 1400.	-	2 1616.	-	1 2200.	-	4 1610.	-	-
Construction & Bldg. Materials	11	3.93%	1923.	-	-	-	10 1866.	-	-	-	-	1 2500.	-	-	-
Controls & Instrumentation	11	3.93%	1608.	-	1 1300.	-	-	4 1501.	-	1 1825.	3 1586.	1 2500.	1 1300.	-	-
Data Processing Equipment	11	3.93%	1936.	1 1500.	-	-	-	6 2021.	-	-	1 2290.	2 2150.	1 1086.	-	-
Electrical Equipment	9	3.21%	1453.	-	-	-	-	6 1544.	-	-	2 1350.	-	1 1115.	-	-
State Government	9	3.21%	1424.	-	-	-	7 1483.	2 1218.	-	-	-	-	-	-	-
Automobile & Automotive Equipment	8	2.86%	1740.	1 1892.	1 1470.	-	-	1 1600.	-	-	-	-	5 1792.	-	-
Chemical & Chemical Products	6	2.14%	1455.	-	-	1 1325.	-	1 1375.	-	-	-	1 2200.	3 1345.	-	-

(Continued on following page.)

## THE EMPLOYED 1962 GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING TYPES OF COMPANIES (continued)

Type of Company	All Engineers	Percent	1972 Average Salary	Aero. E.	Ag. E.	Ceram. E.	Civil E.	Flec. E.	E. Mech.	E. Phys.	Gen. E.	Ind. E.	Mech. E.	Met. E.	Min. E.
Public Utilities	6	2.14%	\$1500.	-	-	-	-	3 \$1238.	-	-	1 \$1538.	1 \$1500.	1 \$2250.	-	-
City & County Governments	5	1.79%	1376.	-	-	-	5 \$1376.	-	-	-	-	-	-	-	-
Glass & Ceramics	5	1.79%	1650.	-	-	5 \$1650.	-	-	-	-	-	-	-	-	-
Heating & Air Conditioning	5	1.79%	1488.	-	-	-	-	-	-	-	-	-	5 1488.	-	-
Petroleum	5	1.79%	1604.	-	-	-	2 1635.	-	-	-	-	-	2 1675.	-	1 \$1400.
Research Laboratories	5	1.79%	1539.	-	-	-	-	1 1875.	-	1 \$1733.	1 1417.	-	-	2 \$1335.	-
Miscellaneous Light Manufacturing	4	1.43%	1450.	-	-	-	-	-	-	-	3 1523.	-	1 1230.	-	-
Nuclear & Electric Power Equipment	3	1.07%	1690.	-	-	-	-	-	1 \$1430.	2 1820.	-	-	-	-	-
Architect/Engineers	2	.71%	1437.	-	-	-	2 1437.	-	-	-	-	-	-	-	-
Investments & Banking	2	.71%	2550.	-	-	-	-	-	-	-	1 3000.	-	1 2100.	-	-
Mining & Mineral Processing Equipment	2	.71%	1462.	-	-	-	-	-	-	-	-	-	1 1550.	-	1 1375.
Paper Machinery	2	.71%	1525.	-	-	1 1250.	-	-	1 1800.	-	-	-	-	-	-
Patent Law	2	.71%	1925.	-	-	-	-	2 1925.	-	-	-	-	-	-	-
Pollution Control Equipment	2	.71%	1541.	-	1 1000.	-	1 2083.	-	-	-	-	-	-	-	-
Retail Merchandise	2	.71%	1537.	-	-	-	-	1 1275.	-	-	1 1800.	-	-	-	-

(Continued on following page.)

## THE EMPLOYED 1962 GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING TYPES OF COMPANIES (Continued)

Type of Company	All Engineers	Percent	1972 Average Salary	Aero. E.	Ag. E.	Ceram. E.	Civil E.	Elec. E.	E. Mech.	E. Phys.	Gen. E.	Ind. E.	Mech. E.	Met. E.	Min. E.
Transportation	2	.71	\$1685.	-	-	-	1 \$1950.	-	-	-	-	1 \$1420.	-	-	-
Advertising	1	.36%	1000.	-	1 \$1000.	-	-	-	-	-	-	-	-	-	-
Elevator	1	.36%	1298.	-	-	-	-	-	-	-	-	-	1 \$1298.	-	-
Food	1	.36%	1275.	-	-	-	-	1 \$1275.	-	-	-	-	-	-	-
Health Care	1	.36%	1400.	-	-	-	-	-	-	-	1 \$1400.	-	-	-	-
Home Appliances	1	.36%	1276.	-	-	1 \$1276.	-	-	-	-	-	-	-	-	-
Packaging	1	.36%	2000.	-	-	-	-	-	-	-	-	-	1 2000.	-	-
Pharmaceutical Drugs	1	.36%	1200.	-	-	-	-	-	-	-	-	1 1200.	-	-	-
Printing	1	.36%	1350.	-	-	-	-	-	-	-	-	-	1 1350.	-	-
Real Estate & Insurance	1	.36%	1880.	1 \$1880.	-	-	-	-	-	-	-	-	-	-	-
Rubber & Plastics	1	.36%	1260.	-	-	-	-	-	-	-	1 1260.	-	-	-	-
Testing Laboratory	1	.36%	1200.	-	-	-	1 1200.	-	-	-	-	-	-	-	-
Trade Association	1	.36%	1333.	-	-	-	1 1333.	-	-	-	-	-	-	-	-
Totals	280	100.00%		18	12	10	52	75	8	11	20	11	54	7	2

## SIZE OF ORGANIZATIONS IN WHICH THE 1962 GRADUATES ARE NOW EMPLOYED

	All Engineers	Aero. E.	Ag. E.	Ceram. E.	Civil E.	Elec. E.	E. Mech.	E. Phys.	Gen. E.	Ind. E.	Mech. E.	Met. E.	Min. E.
Total Employed	280	18	12	10	52	75	8	11	20	11	54	7	2
0-50 Employees	27 9.64% \$1768.	1 5.55% \$1880.	3 25.00% \$ 958.	1 10.00% \$1250.	9 17.31% \$2089.	6 8.00% \$1864.	1 12.50% \$ 700.	1 9.09% \$2200.	1 5.00% \$3000.	- - -	4 7.41% \$1465.	- - -	- - -
51-150 Employees	20 7.14% \$1547.	- - -	- - -	1 10.00% \$2000.	9 17.31% \$1423.	5 6.67% \$1670.	- - -	1 9.09% \$1552.	- - -	- - -	3 5.55% \$1628.	1 14.29% \$1352.	- - -
151-500 Employees	35 12.50% \$1504.	2 11.11% \$1235.	1 8.33% \$1470.	1 10.00% \$1388.	9 17.31% \$1667.	11 14.67% \$1463.	- - -	2 18.18% \$1003.	1 5.00% \$1500.	2 18.18% \$1916.	5 9.26% \$1475.	1 14.29% \$1500.	- - -
501-5,000 Employees	83 29.64% \$1516.	2 11.11% \$1671.	3 25.00% \$1161.	- - -	14 26.92% \$1542.	22 29.33% \$1508.	4 50.00% \$1627.	4 36.36% \$1625.	7 35.00% \$1536.	5 45.45% \$1844.	16 29.63% \$1458.	5 71.43% \$1314.	1 50.00% \$1375.
5,000- 10,000 Employees	32 11.43% \$1501.	3 16.67% \$1689.	1 8.33% \$1408.	3 30.00% \$1404.	4 7.69% \$1406.	8 10.67% \$1520.	- - -	2 18.18% \$1836.	3 15.00% \$1372.	- - -	8 14.81% \$1474.	- - -	- - -
Over 10,000 Employees	83 29.64% \$1558.	10 55.55% \$1438.	4 33.33% \$1384.	4 40.00% \$1475.	7 13.46% \$1669.	23 30.67% \$1538.	3 37.50% \$1557.	1 9.09% \$ 950.	8 40.00% \$1775.	4 36.36% \$1800.	18 33.33% \$1559.	- - -	1 50.00% \$1400.

## THE 280 RESPONDENTS WHO ARE EMPLOYED ARE NOW EMPLOYED BY THE FOLLOWING COMPANIES

Abbott Laboratories	1 M.E., 1 I.E.
Aeronca, Incorporated	1 A.A.E.
Aerospace Corporation	1 A.A.E., 1 M.E.
Allen-Bradley Company	1 G.E.
Allen Incorporated	1 C.E.
Allis-Chalmers	1 Ag.E.
American Oil Company	1 M.E.
American Plywood Company	1 C.F.
Ambex Corporation	1 E.E.
Armor Elevator Company	1 I.E.
Aro Incorporated	1 M.E.
Babcock & Wilcox	1 Ceram.E., 1 E.M.
Barber Colman	1 Ag.E., 1 M.E.
Battelle Memorial Institute	1 Met.E.
Bechtel Corporation	1 C.E., 1 M.E.
A.G. Becker Company	1 M.E.
Bell System: (8)	
Bell Laboratories	1 C.E., 1 E.E.
Illinois Bell	1 G.E.
Sandia	1 E.P., 1 G.E.
Teletype	1 E.E., 1 I.E., 1 M.E.
Beloit Corporation	1 E.M.
Boeing Company	1 E.E., 1 M.E.
Paul C. Box & Associates	1 C.E.
Brite Realtors	1 A.A.E.
Brunswick Corporation	1 Ceram.E.
California Division of Highways	2 C.E.
California Polytechnic State University	1 Ag.E.
J.I. Case Company	1 Ag.E.
Caterpillar Tractor Company	1 Ag.E., 1 Ceram.E., 1 E.M., 1 G.E.
Central Illinois Public Service Company	1 E.E.
Century Electric Div., Gould Incorporated	1 M.E.
Chicago Bridge & Iron Company	1 M.E.
Chicago Metropolitan Sanitary District	1 C.E.
Chromalloy American Corporation	1 C.E.
City of Champaign	1 C.E.
City of Chicago	1 C.E.
City of Escondido	1 C.E.
City of St. Louis	1 C.E.
Collins Radio	6 F.E.
Commonwealth Edison Company	1 E.E.
Computer Communications & Engineering Corporation	1 E.E.
Consumers Power Company	1 M.E.
Control Data Corporation	1 E.E.

R.L. Craig Company, Incorporated	1 M.E.
Dames & Moore	1 C.E.
Dana Corporation, Perfect Circle Division	1 M.E.
Daverman Associates, Incorporated	1 E.E.
Deere & Company	1 M.E.
E.I. DuPont	1 E.E., 2 M.E.
Eastman Kodak	1 I.E.
Engineering Consultants, Incorporated	1 C.E.
Esso Research	2 C.E.
Fabian, Nelson & Medina, Incorporated	1 F.M.
FMC - Link Belt Division	1 Met.E.
Ford Motor Company	3 M.E.
J.M. Foster, Incorporated	1 C.E.
Gates Lear Jet Company	1 A.A.E.
General Telephone -- GTE Automatic Electric	2 E.E.
General Dynamics	2 E.E., 1 E.M.
General Electric Company	2 E.E., 1 E.P.
General Motors Corporation: (3)	
Delco Division	1 E.E.
Electro Motive Division	1 M.E.
Research Laboratory	1 A.A.E.
Geolabs-California, Incorporated	1 C.E.
Givenrod-Lipe, Incorporated	1 C.E.
Golden Gate College	1 A.A.E.
Goodyear Tire & Rubber Company	1 G.E.
Gresen Manufacturing	1 G.E.
Gulf General Atomic	1 E.P.
Hallmark Cards	1 M.E.
Harley, Ellington, Pierce, Yee & Associates	1 C.E.
Hawkins Construction Company	1 C.E.
Hawthorne Engineering Company	1 M.E.
Henry, Meisenheimer & Gende, Incorporated	1 C.E.
Hewlett-Packard Company	2 G.E.
Heyl Patterson Company	1 C.E.
Honeywell, Incorporated	2 E.E., 1 G.E.
Hoover Water Well Service, Incorporated	1 C.E.
Hughes Tool Company	1 M.E.
Hydrocon Company	1 Ceram.E.
Illinois--State: (7)	
Commerce Commission	1 E.E.
Division of Highways	1 E.E.
Division of Transportation	4 C.E.
Water Survey	1 C.E.
Industrial Nucleonics	1 E.P.
Inmaran Company	1 E.E.
International Business Machines (I.B.M.)	1 G.E., 1 I.E.
International Mineral & Chemical Corporation	1 M.E.
Irvin Industries	1 M.E.

Itek Corporation	1 E.E.
J.H.K. Associates	1 C.F.
Johnson Service Company	1 G.E.
Kirkwood Community College	1 E.E.
Knowles Electronics, Incorporated	1 E.E.
Koenig, Senniger, Power & Leavitt	1 E.E.
Komline, Sanderson Engineering Corporation	1 C.E.
Laclede Steel Company	1 I.E.
Lear Siegler, Incorporated	1 E.E.
Litton Systems	1 E.E.
Lockheed: (6)	
Burbank	1 A.A.E., 1 E.E., 2 M.E.
Georgia Division	1 A.A.E.
Missile Division	1 A.A.E.
M.W. Lyles Company	1 C.E.
Magneco Electronics	1 Ceram.E.
Martin-Marietta	2 A.A.F.
Material Service Corporation	1 C.E.
McDonnell-Douglas: (7)	
Automation	1 A.A.F.
Huntington Beach	1 A.A.E., 1 E.E.
Long Beach	1 A.A.E., 1 E.E.
Richland	1 Met.E.
St. Louis	1 M.E.
McHenry County College	1 E.P.
Medtronic Incorporated	1 M.E.
Memorex Corporation	1 I.E.
Midwesco Enterprises - Visi Con Division	1 I.E.
Miller-Davis Company	1 C.E.
Minnesota Mining & Manufacturing Company	1 Ceram.E.
Molinare, Allegretti, Newitt & Witcoff	1 E.E.
Monmouth Stone Company	1 C.E.
Montgomery Elevator Company	1 M.E.
Motorola: (7)	
Phoenix	2 E.E., 1 G.E.
Schaumburg	3 E.E.
Scottsdale	1 E.E.
National Cash Register Company	1 M.E.
National Electronics, Incorporated	1 I.E.
National Packaging Corporation	1 M.E.
North American -- Rockwell: (7)	
Atomic Division	1 E.M.
Autonetics Division	1 E.E.
Columbus Division	1 G.E.
Graphics Division	1 E.E.
Merritt Island	1 E.E.
Rocketdyne Division	1 E.E., 1 M.E.
Norton Company	1 Ceram.E.

Odetics Incorporated	1 E.E.
Old Ben Coal Company	1 Min.E.
Pacific Pump Division - Dresser Industries	1 G.E.
Pam Associates	1 G.E.
Pan American World Airways	1 E.E.
Parker Pen Company	1 G.E.
Peabody-Welles Company	1 Ag.E.
Penn Controls	1 G.E.
J.W. Peters Company	1 C.E.
Pharmaseal	1 G.E.
Pipeline Service Company	1 E.E.
Portland Cement Association	1 C.E.
PPG Industries	2 Ceram.E.
Pratt & Whitney Aircraft	2 M.E.
Precision Cast Parts Corporation	1 I.E.
Procter & Gamble Company	1 E.E.
Purdue University	1 E.P.
Raytheon Corporation	1 A.A.E.
R. B. & W. Powder Metal Products Company	1 Met.E.
Revere Copper & Brass Company	1 M.E.
Rheem Manufacturing Company	1 E.P.
Rockower Brothers, Incorporated	1 G.E.
Sangamo Electric Company	2 E.E.
Sears Roebuck & Company	1 E.E.
Shannon & Wilson, Incorporated	1 C.E.
Shell Oil Company	1 M.E.
R. Shriver & Associates	1 E.P.
Simonds Steel Company	1 Met.E.
Sodemann Heat & Power Company	1 M.E.
Sperry Flight Systems	1 E.E.
Sterns-Roger Corporation	1 C.E.
Stewart Warner Corporation	2 M.E.
Streeter American	1 E.E.
Sun Oil Company	1 Min.E.
Sundstrand Corporation	1 Ag.E., 2 M.E.
Sylvania Electronics Systems	1 E.E.
Systems Architects Incorporated	1 E.E.
Tacoma City Light Company	1 E.E.
Teledyne-Ryan Aeronautical Company	1 E.M.
Temple University	1 E.P.
Testing Engineers, Incorporated	1 C.E.
Texas Instruments Company	1 E.E.
Time Data Corporation	1 E.E.
Trane Company	2 M.E.
TRW Systems	2 A.A.E., 1 E.E.
Underwriters Laboratory	1 C.E.
Union Tank Car Company	1 I.E.
United Air Lines	1 C.E.



United Conveyor Corporation	1 M.E.
U.S. Government: (22)	
Agriculture - Soil Conservation Service	2 Ag.E.
Air Force - Belleville, Illinois	1 C.E.
Air Force - Eglin Air Force Base	1 E.E.
Army Aviation Systems Command	1 A.A.E.
Army Corps of Engineers	1 C.E.
Army Engineer Waterways Experiment Station	1 E.M.
Army Weapons Command	3 M.E.
Atomic Energy Commission	1 C.E.
Attorneys Office	1 M.E.
Bureau of Reclamation	1 C.E.
Environmental Protection Agency	1 M.E.
Federal Highway Commission	1 C.E.
National Bureau of Standards	1 E.E., 1 G.E.
Naval Electronics Laboratory	1 E.E.
Naval Facilities Engineering Commission	1 M.E.
Naval Weapons Laboratory	1 E.E.
Tennessee Valley Authority	1 C.E., 1 M.E.
University of Alabama	1 E.P.
University of Delaware	1 E.P.
University of Denver	1 Met.E.
University of Illinois	1 Ag.E., 1 Ceram.E., 2 E.E.
University of Iowa	1 C.E.
University of Kansas	1 E.E.
University Computing Company	1 E.E.
U.S. Steel Corporation	1 Met.E.
Vermont Technical College	1 E.E.
Victor Comptometer Company	1 E.E.
Warzyn Engineering Service	1 Ag.E.
Wescom Incorporated	1 E.E.
Western Acadia	1 M.E.
Westinghouse Electric Company	1 E.E.
Woodward & Clevenger Associates	1 C.E.
Robert M. Young Company	1 Ag.E.
Zenith Radio Company	1 E.E.

## PRESENT FIELD OF PRIMARY RESPONSIBILITY

Field	All Engineers	Percent	1972 Average Salary	Aero. E.	Ag. E.	Ceram. E.	Civil E.	Elec. E.	E. Mech.	E. Phys.	Gen. E.	Ind. E.	Mech. E.	Met. E.	Min. E.
Management & Administration	64	22.86%	\$1693.	3	4	1	12	16	-	4	6	3	14	1	-
Design & Development	36	12.86%	1405.	4	2	1	1	17	2	1	2	-	5	-	1
Project Engineering	24	8.57%	1384.	2	1	-	5	9	-	-	-	1	6	-	-
Sales	23	8.21%	1615.	1	-	2	2	4	-	1	5	2	6	-	-
Research	21	7.50%	1492.	-	1	2	3	4	4	-	2	-	2	3	-
Design	16	5.71%	1394.	1	-	-	5	3	1	-	-	-	6	-	-
Consulting	11	3.93%	1670.	1	1	-	9	-	-	-	-	-	-	-	-
Systems Engineering	11	3.93%	1496.	3	-	-	1	3	-	-	1	1	2	-	-
Teaching	9	3.21%	1148.	1	1	-	-	4	-	3	-	-	-	-	-
Development	7	2.50%	1430.	1	-	1	1	-	-	1	-	-	-	3	-
Field Engineering	7	2.50%	1462.	-	-	-	1	5	-	1	-	-	-	-	-
Manufacturing	7	2.50%	1765.	-	-	-	-	1	-	-	1	1	4	-	-
Company Owner	6	2.14%	1908.	-	-	1	2	1	-	-	1	-	1	-	-
Construction	5	1.79%	2081.	-	-	-	4	-	-	-	-	-	1	-	-
Planning	5	1.79%	1584.	-	1	-	-	-	-	-	1	-	3	-	-
Production	4	1.43%	1668.	-	-	-	1	1	-	-	-	-	1	-	1
Data Processing	3	1.07%	1425.	-	-	-	2	-	-	-	-	1	-	-	-
Testing	3	1.07%	1488.	-	-	-	-	2	-	-	-	-	1	-	-

(Continued on following page.)

## PRESENT FIELD OF PRIMARY RESPONSIBILITY (Continued)

Field	All Engineers	Percent	1972 Average Salary	Aero. E.	Ag. E.	Ceram. E.	Civil E.	Elec. E.	E. Mech.	E. Phys.	Gen. E.	Ind. E.	Mech. E.	Met. E.	Min. E.
Law	3	1.07%	\$1811.	-	-	-	-	2 \$1925.	-	-	-	-	1 \$1585.	-	-
Service	2	.71%	1202.	-	1 \$1104.	-	-	-	-	-	-	-	1 1300.	-	-
Utility Regulation	2	.71%	1573.	-	-	-	1 \$1890.	1 1256.	-	-	-	-	-	-	-
Industrial Engr.	2	.71%	1301.	-	-	-	-	1 1270.	-	-	-	1 \$1333.	-	-	-
Analysis	2	.71%	1708.	1 \$1999.	-	-	-	-	-	-	1 \$1417.	-	-	-	-
Marketing	1	.36%	2500.	-	-	-	-	-	-	-	-	1 2500.	-	-	-
Application Engr.	1	.36%	1305.	-	-	-	-	1 1305.	-	-	-	-	-	-	-
Computer Programming	1	.36%	1440.	-	-	-	-	-	1 \$1440.	-	-	-	-	-	-
Financial Analysis	1	.36%	1276.	-	-	1 \$1276.	-	-	-	-	-	-	-	-	-
Estimating	1	.36%	1660.	-	-	-	1 1660.	-	-	-	-	-	-	-	-
Purchasing	1	.36%	1500.	-	-	1 1500.	-	-	-	-	-	-	-	-	-
Pilot	1	.36%	1950.	-	-	-	1 1950.	-	-	-	-	-	-	-	-
Totals	280	100.00%		18	12	10	52	75	8	11	20	11	54	7	2

## PRESENT LEVEL OF RESPONSIBILITY

	All Engineers	Aero. E.	Ag. E.	Ceram. E.	Civil E.	Elec. E.	E. Mech.	E. Phys.	Gen. E.	Ind. E.	Mech. E.	Met. E.	Min. E.
All Engineers	280	18	12	10	52	75	8	11	20	11	54	7	2
Supervise a Small Group	105 37.50% \$1384.	10 55.55% \$1386.	6 50.00% \$1233.	5 50.00% \$1437.	14 26.92% \$1368.	28 37.33% \$1367.	4 50.00% \$1418.	3 27.27% \$1269.	6 30.00% \$1471.	2 18.18% \$1600.	25 46.30% \$1407.	2 28.57% \$1366.	- - -
Individual in a Group	98 35.00% \$1469.	4 22.22% \$1645.	4 33.34% \$1226.	2 20.00% \$1332.	19 36.54% \$1487.	31 41.33% \$1506.	4 50.00% \$1552.	5 45.46% \$1713.	4 20.00% \$1547.	2 18.18% \$1376.	17 31.48% \$1409.	4 57.14% \$1297.	2 100.00% \$1387.
Manage Major Group or Department	46 16.43% \$1772.	2 11.11% \$1649.	1 8.33% \$1470.	- - -	10 19.23% \$1739.	9 12.00% \$1811.	- - -	3 27.27% \$1742.	7 35.00% \$1810.	3 27.28% \$1833.	10 18.52% \$1816.	1 14.29% \$1500.	- - -
Plant Manager or Superintendent	3 1.07% \$1750.	- - -	- - -	2 20.00% \$1625.	- - -	- - -	- - -	- - -	- - -	1 9.09% \$2000.	- - -	- - -	- - -
Top Executive	15 5.35% \$2283.	- - -	1 8.33% \$1000.	- - -	6 11.54% \$2258.	3 4.00% \$2566.	- - -	- - -	1 5.00% \$3000.	2 18.18% \$2500.	2 3.70% \$2000.	- - -	- - -
Branch Manager	5 1.79% \$2188.	1 5.56% \$1880.	- - -	- - -	2 3.85% \$2605.	2 2.67% \$1925.	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Individual in Private Practice	8 2.86% \$1670.	1 5.56% \$1522.	- - -	1 10.00% \$1650.	1 1.92% \$1950.	2 2.67% \$1779.	- - -	- - -	2 10.00% \$1441.	1 9.09% \$1800.	- - -	- - -	- - -

HOW MANY ENGINEERS AND SCIENTISTS WORK IN THE ORGANIZATIONAL UNIT  
TO WHICH YOU BELONG IN YOUR CURRENT MAJOR POSITION?

	All Engineers	Aero. E.	Ag. E.	Ceram. E.	Civil E.	Elec. E.	E. Mech.	E. Phys.	Gen. E.	Ind. E.	Mech. E.	Met. E.	Min. E.
None	25 8.93%	2 11.11%	- -	1 10.00%	3 5.77%	1 1.33%	- -	2 18.18%	6 30.00%	2 18.18%	8 14.81%	- -	- -
1-3	52 18.57%	- -	6 50.00%	3 30.00%	9 17.31%	10 13.33%	1 12.50%	1 9.09%	2 10.00%	5 45.45%	12 22.22%	3 42.86%	- -
4-10	78 27.86%	2 11.11%	3 25.00%	4 40.00%	21 40.38%	25 33.33%	1 12.50%	3 27.27%	3 15.00%	3 27.27%	9 16.67%	3 42.86%	1 50.00%
11-20	45 16.07%	3 16.67%	2 16.67%	1 10.00%	7 13.46%	13 17.33%	2 25.00%	3 27.27%	5 25.00%	1 9.09%	6 11.11%	1 14.29%	1 50.00%
21-50	34 12.14%	5 27.78%	- -	- -	5 9.61%	8 10.67%	3 37.50%	2 18.18%	2 10.00%	- -	9 16.67%	- -	- -
51-100	21 7.50%	2 11.11%	- -	- -	2 3.85%	8 10.67%	1 12.50%	- -	1 5.00%	- -	7 12.96%	- -	- -
101-300	12 4.28%	- -	- -	1 10.00%	3 5.77%	6 8.00%	- -	- -	1 5.00%	- -	1 1.85%	- -	- -
Over 300	13 4.64%	4 22.22%	1 8.33%	- -	2 3.85%	4 5.33%	- -	- -	- -	- -	2 3.70%	- -	- -
Totals	280	18	12	10	52	75	8	11	20	11	54	7	2

## QUESTION CONCERNING THE VALUE OF ADDITIONAL DEGREES

Question: Rank in order (1, 2, 3) the value of additional degrees which you feel would be the most valuable to you.

	Order of Importance		
	1st	2nd	3rd
M.B.A.	132 47.14%	34 12.14%	18 6.43%
Law	26 9.28%	42 15.00%	24 8.57%
M.S. in Original Field	24 8.57%	35 12.50%	22 7.86%
M.S. in Other Technical Field	26 9.28%	22 7.86%	29 10.36%
Ph.D. in Original Field	21 7.50%	18 6.43%	18 6.43%
Other	21 <sup>1</sup> 7.50%	11 <sup>2</sup> 3.93%	17 <sup>3</sup> 6.07%
Ph.D. in Other Technical Field	7 2.50%	10 3.57%	18 6.43%
No Choice Listed	23 8.21%	108 38.57%	134 47.86%
Total	280	280	280

<sup>1</sup>Other - 1st choice: 10 no field mentioned  
 3 medicine  
 3 no additional degrees needed  
 2 finance  
 1 human relations psychology  
 1 architecture  
1 teaching  
 21

<sup>2</sup>Other - 2nd choice: 10 no field mentioned  
1 finance  
 11

<sup>3</sup>Other - 3rd choice: 15 no field mentioned  
 1 computer science  
1 medicine  
 17

QUESTIONS CONCERNING PRESENT POSITIONS AND ITS RELATION TO THEIR UNDERGRADUATE DEGREES

QUESTION: To hold your present position, is it important for you to have an engineering degree?

Yes	236	84.28%
No	44	15.71%
Total	<u>280</u>	<u>100.00%</u>

QUESTION: How much knowledge and skill, related to your undergraduate degree, do you apply in your present position?

Most or all	85	30.36%
Some	133	47.50%
Very little	53	18.93%
None	9	3.21%
Total	<u>280</u>	<u>100.00%</u>

QUESTION: On the average, how many hours do you spend on your job each week?

30 hours or less	2	.71%
31-40 hours	56	20.00%
41-45 hours	117	41.78%
46-50 hours	65	23.21%
51 or more hours	40	14.29%
Total	<u>280</u>	<u>100.00%</u>

QUESTION: If you have not received an advanced degree and are not working toward one, do you feel that this has been a limiting factor in your progress with your company?

Yes	15 <sup>1</sup>	5.36%
No	142	50.71%
No answer	123	43.93%
Total	<u>280</u>	<u>100.00%</u>

<sup>1</sup>2--No reason given

"Future advancement recently identified for those with advanced degrees."

"I prefer research and development but the company is advanced degree biased, primarily in another discipline (chemistry & chemical engineering), when considering promotability. I, therefore, moved to manufacturing and now sales."

"Market decisions and recognition are more difficult to obtain without M.B.A. recognition."

"Competition"

"Promotions are based on education (partly); I worked on an advanced degree part-time but did not finish."

"Company is Ph.D. conscious."

"A limiting factor in my progress with the company but not in my work. There's a difference!"

"M.B.A.'s are frequently sought after to fill positions of interest to me."

"Company policy not to promote without advanced degree."

(Continued on following page.)

"Most executive positions are filled with individuals who have M.B.A.'s."

"Trend toward hiring Ph.D.'s."

"Almost prerequisite for further advancement."

"I feel it shows a lack of initiative on the part of the individual concerned."

#### QUESTION CONCERNING UNDERGRADUATE CURRICULUM

QUESTION: If you had it to do all over again, would you choose:

154	55.00%	A specialized undergraduate engineering curriculum (e.g., M.E., E.E., etc.)
46	16.43%	A common undergraduate engineering curriculum (no specialization)
46	16.43%	Another type of undergraduate professional curriculum (e.g., pre-law, medicine)
16	5.71%	A business administration curriculum
8	2.86%	Another type of curriculum in mathematics or physical science (e.g., phys., chem.)
6	2.14%	Other
4	1.43%	A liberal arts curriculum
<u>280</u>	<u>100.00%</u>	Totals

#### QUESTIONS CONCERNING PROFESSIONAL DEVELOPMENT

QUESTION: Have you become registered as:

1. Professional Engineer	64
2. Engineer-In-Training	50
3. Structural Engineer	4
4. Surveyor	-

QUESTION: Have you participated in any company professional or management programs?

Yes	180	64.29%
No	93	33.21%
No reply	7	2.50%
Total	<u>280</u>	<u>100.00%</u>

QUESTION: Have you held an office in any of the following organizations?

1. Church	74
2. Professional Organization	49
3. Boy Scouts or Other Youth Groups	46
4. Service Clubs	30
5. Political	19
6. School Board	11









