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the
university of illinois
college of engineering
1964 GRADUATES
5 years later
where are they
now?

DEPARTMENT OF THE
MAY 18 1977
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

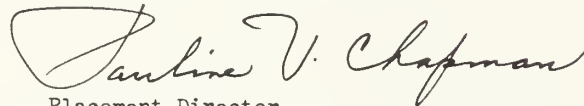


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The information in this report covers the B.S. Degree graduates of the College of Engineering at the University of Illinois, Urbana, Illinois, five years after graduation. It is hoped that the information will be interesting to both the 1964 graduates and the companies that employ them. Suggestions for improvement will be gratefully accepted.

(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 above the typed name and title.

Placement Director
College of Engineering
University of Illinois
Urbana, Illinois

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FIVE-YEAR SALARY PROGRESS OF ENGINEERING GRADUATES WHO RECEIVED A B.S. DEGREE IN 1964

	Number of Questionnaires Sent	Number of Questionnaires Returned	Percent of Return	Military Service	Currently in Graduate Colleges	Employed	Average Monthly Salary 1969	High Monthly Salary 1969	Low Monthly Salary 1969	Average Starting Salary 1964	Percent of Increase 1964-1969
All Engineers	640 ¹	396	62.0%	4.5% 18	8.3% 33	87.2% 345	\$1069.27	\$1995.00 ³	\$ 600.00 ³	\$615.68	73.7% ²
Aero. E.	41	25	60.9%	-	2	23	1133.09	1995.00	800.00	640.16	77.0%
Ag. E.	8	3	37.5%	1	-	2	1197.50	1250.00	1145.00	564.50	112.1%
Ceram. E.	23	13	56.5%	-	1	12	993.67	1160.00	800.00	619.25	60.5%
Civil E.	112	69	61.6%	6	4	59	1017.27	1500.00	755.00	597.01	701.4%
E. E.	219	143	65.3%	5	7	131	1090.23	1650.00	600.00	625.77	74.2%
E. M.	19	11	57.9%	-	2	9	1086.78	1500.00	910.00	607.33	78.9%
E. Physics	33	14	42.4%	-	10	4	1147.50	1250.00	1040.00	611.00	87.8%
Gen. E.	27	23	85.2%	3	1	19	1043.74	1500.00	700.00	611.44	70.7%
I. E.	32	18	56.3%	1	-	17	1080.88	1300.00	835.00	609.31	77.4%
M. E.	106	64	60.4%	2	5	57	1065.39	1500.00	850.00	616.17	72.9%
Met. E.	15	10	6.7%	-	-	10	1040.00	1300.00	900.00	611.14	70.2%
Min. E.	5	3	6.0%	-	1	2	987.50	1175.00	800.00	585.00	68.8%

¹ 698 original number - 38 foreign students employed in home country not surveyed, 11 returned for incorrect address, 5 returned forms gave no salary information, 5 completed forms arrived too late to be included in report.

² Increase in starting salaries: 1964 to 1969 - 34.2%

³ Highest salary - employed by large aerospace company; lowest salary - in training with brokerage firm.

SALARY COMPARISON FIGURES OF THOSE GRADUATES WHO HAVE COMPLETED AN ADVANCED DEGREE SINCE 1964 AND THOSE WHO HAVE NOT:

The following salary comparison figures require some explanation. It must be remembered that the one hundred twenty-six 1964 graduates who have completed an advanced degree have taken time out to complete the necessary academic work during the five years since their graduation in 1964. As a result, their years of employment will vary in proportion to the time required to complete this work. The salary figure on those graduates listed under "No Advanced Degree" represents financial progress for the full five years while the salaries listed in the M.S. and Ph.D. columns may only represent financial progress of from one to four years less than the full five years.

	Total Employed	No Advanced Degree	M.S. Original Field	M.S. Other Technical Field	M.S. Non-Technical Field	Ph.D. Original Field	Ph.D. Other Technical Field	M.B.A.	Law	Other
All Engineers	345	219	72	12	1	9	2	25	3	2 ¹
Average Salary		\$1051.45	\$1085.29	\$1086.33	\$1100.00	\$1273.44	\$1075.00	\$1097.60	\$1074.00	\$1040.00
Aero. & Astro. Eng.	23	11	7	2	-	2	1	-	-	-
Average Salary		1076.90	1170.00	1037.50	-	1400.00	1150.00	-	-	-
Agricultural Eng.	2	1	1	-	-	-	-	-	-	-
Average Salary		1145.00	1250.00	-	-	-	-	-	-	-
Ceramic Eng.	12	2	7	-	-	-	-	3	-	-
Average Salary		1035.00	1006.28	-	-	-	-	936.67	-	-
Civil Eng.	59	45	11	-	-	1	-	2	-	-
Average Salary		1014.88	1021.18	-	-	925.00	-	1095.50	-	-
Electrical Eng.	131	87	30	3	1	3	1	5	1	-
Average Salary		1075.34	1081.40	1319.00	1100.00	1363.00	1000.00	1127.00	1042.00	-
Eng. Mechanics	9	7	-	1	-	1	-	-	-	-
Average Salary		1098.85	-	964.00	-	1125.00	-	-	-	-
Engineering Physics	4	1	3	-	-	-	-	-	-	-
Average Salary		1040.00	1183.33	-	-	-	-	-	-	-
General Eng.	19	12	-	1	-	-	-	4	1	1
Average Salary		1053.16	-	915.00	-	-	-	1092.00	980.00	930.00
Industrial Eng.	17	8	2	1	-	-	-	5	-	1
Average Salary		1016.75	1127.50	1000.00	-	-	-	1167.20	-	1150.00
Mechanical Eng.	57	37	10	2	-	1	-	6	1	-
Average Salary		1040.21	1109.20	1062.50	-	1222.00	-	1100.00	1200.00	-
Metallurgical Eng.	10	6	1	2	-	1	-	-	-	-
Average Salary		1002.50	1085.00	1000.00	-	1300.00	-	-	-	-
Mining Eng.	2	2	-	-	-	-	-	-	-	-
Average Salary		987.50	-	-	-	-	-	-	-	-

¹ 1 Medicine, 1 Journalism

* Of those who completed an advanced degree 79 (62.70%) completed the degree as a full-time student; 47 (37.30%) completed the degree part-time while employed.

MILITARY SERVICE AFTER GRADUATION IN 1964 AND ITS EFFECT ON 1969 SALARY

(Does not include those presently in military service.)

	All Engineers	Aero. F.	AG. F.	Ceram. F.	Civil E.	E. E.	Eng. Mech.	Eng. Physics	Gen. F.	I. E.	M. E.	Met. F.	Min. E.
Total Employed	342 ¹	23	2	12	58 ¹	129 ¹	9	4	19	17	57	10	2
No Military Service	299 87.4%	21 91.4%	2 100.0%	11 91.7%	43 74.1%	119 92.3%	9 100.0%	4 100.0%	16 84.2%	12 70.6%	51 89.5%	10 100.0%	1 50.0%
	\$1080.	\$1158.	\$1198.	\$ 999.	\$1032.	\$1096.	\$1087.	\$1148.	\$1030.	\$1097.	\$1073.	\$1040.	\$1175.
6 Months or Less	12 3.5%	-	-	-	5 8.6%	3 2.3%	-	-	-	2 11.8%	1 1.8%	-	1 50.0%
	1017.	-	-	-	994.	1073.	-	-	-	1108.	1000.	-	800.
1 Year	2 .6%	1 4.3%	-	-	1 1.7%	-	-	-	-	-	-	-	-
	1050.	950.	-	-	1150.	-	-	-	-	-	-	-	-
2 or More Years	29 8.5%	1 4.3%	-	1 8.3%	9 15.6%	7 5.4%	-	-	3 15.8%	3 17.6%	5 8.7%	-	-
	1002.	800.	-	935.	961.	1044.	-	-	1117.	1000.	1001.	-	-

¹ 3 respondents did not answer this question (2 E.E., 1 C.E.).

1964 GRADUATES PRESENTLY EMPLOYED AND WORKING ON ADVANCED DEGREES

	Total Working on Advanced Degrees	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	M.B.A.	Law	Other
All Engineers	97	32	6	4 ¹	9	4	38	3	1 ¹
Aero. & Astro. Eng.	8	3	1	-	2	1	1	-	-
Agricultural Eng.	-	-	-	-	-	-	-	-	-
Ceramic Eng.	2	1	-	-	-	-	-	1	-
Civil Eng.	10	4	-	-	-	-	5	-	1
Electrical Eng.	49	18	4	1	6	2	17	1	-
Eng. Mechanics	3	1	-	-	-	-	2	-	-
Eng. Physics	1	-	-	-	1	-	-	-	-
General Eng.	4	-	-	1	-	-	3	-	-
Industrial Eng.	6	1	1	1	-	-	3	-	-
Mechanical Eng.	12	4	-	1	-	-	6	1	-
Metallurgical Eng.	2	-	-	-	-	1	1	-	-
Mining Eng.	-	-	-	-	-	-	-	-	-

¹ No field indicated.

RANGE OF 1969 SALARIES OF 1964 ENGINEERING GRADUATES

The monthly salaries are divided according to the degree held in 1969.

<u>B.S. Degree</u>		Salary	Total	Salary	Total	Salary	Total	<u>Ph.D. Degree</u>		<u>Law Degree</u>	
Salary	Total	\$1070	2	\$ 925	2	\$1150	1	Salary	Total	Salary	Total
\$1995	1	1067	1	920	5	1140	1	\$1517	1	\$1200	1
1650	1	1060	2	915	1	1127	1	1500	1	1042	1
1500	7	1053	1	914	1	1125	2	1350	1	980	<u>1</u>
1400	2	1050	2	910	2	1115	1	1300	1		<u>3</u>
1350	1	1049	1	900	8	1105	1	1222	2		
1345	1	1046	1	885	1	1100	5	1150	1	<u>Other</u>	
1333	1	1045	1	884	1	1098	1	1125	1		
1300	3	1042	1	880	1	1090	1	1000	1	\$1150	1
1280	1	1041	1	875	5	1088	1	925	<u>1</u>	930	<u>1</u>
1264	1	1040	5	870	2	1085	1		<u>11</u>		<u>2</u>
1260	1	1039	1	860	2	1083	3				
1250	2	1038	2	850	4	1080	2				
1225	1	1030	1	840	1	1075	3	Median	\$1300		
1217	1	1025	3	835	1	1070	2				
1210	1	1024	1	830	2	1060	2	<u>M.B.A. Degree</u>			
1201	1	1020	5	800	2	1050	1	\$1400	2		
1200	4	1015	2	755	1	1040	2	1250	1		
1193	1	1014	1	700	<u>1</u>	1033	1	1216	2		
1192	1	1010	2		<u>219</u>	1030	1	1208	1		
1180	1	1008	1			1025	2	1200	1		
1175	1	1006	1	Median	\$1015	1000	6	1191	1		
1170	1	1005	2			990	1	1100	4		
1167	1	1002	1	<u>M.S. Degree</u>		984	1	1090	1		
1161	1	1000	22			970	1	1070	1		
1150	7	997	1	\$1530	1	964	1	1060	1		
1145	1	995	1	1400	1	935	2	1045	1		
1130	1	990	1	1350	1	925	1	1030	1		
1125	5	985	2	1300	2	915	1	1000	4		
1123	1	984	1	1275	1	900	4	953	1		
1120	2	980	2	1250	4	890	1	932	1		
1115	1	975	3	1241	1	883	1	925	1		
1105	2	970	2	1240	1	880	1	854	<u>1</u>		
1100	14	968	1	1225	1	850	1		<u>25</u>		
1093	1	965	3	1205	2	800	1				
1084	1	960	1	1200	5	600	<u>1</u>	Median	\$1100		
1082	1	955	2	1190	1		<u>85</u>				
1080	1	953	2	1175	1						
1078	2	950	9	1165	1	Median	\$1083				
1075	1	942	1	1160	1						
		930	3	1155	2						

JOB CHANGES SINCE 1964

		No Change			One Change			Two Changes			Three Changes			Four or More Changes			
Total Percent of Change	Total Employed	Number	Percent of Change	Salary	Number	Percent of Change	Salary	Number	Percent of Change	Salary	Number	Percent of Change	Salary	Number	Percent of Change	Salary	
46.4%	All Engineers	345	184	53.4%	\$1077.58	120	34.7%	\$1052.32	29	8.3%	\$1047.55	11	3.2%	\$1068.00	1	.4%	\$1995.00
52.2%	Aero. E.	23	11	47.9%	1120.82	10	43.5%	1053.70	1	4.3%	1200.00	-	-	-	1	4.3%	1995.00
-	Ag. E.	2	2	100.0%	1197.50	-	-	-	-	-	-	-	-	-	-	-	-
58.3%	Ceram. E.	12	5	41.7%	1040.00	5	41.7%	928.00	2	16.6%	1042.00	-	-	-	-	-	-
49.25%	Civil E.	59	30	50.8%	1002.83	20	33.9%	1031.10	6	10.2%	982.83	3	5.1%	1138.33	-	-	-
46.5%	E. E.	131	70	53.5%	1102.69	46	35.1%	1085.15	10	7.6%	1058.00	5	3.8%	1027.00	-	-	-
22.2%	Eng. Mech.	9	7	77.8%	1100.86	1	11.1%	950.00	1	11.1%	1125.00	-	-	-	-	-	-
-	Eng. Physics	4	4	100.0%	1147.50	-	-	-	-	-	-	-	-	-	-	-	-
47.4%	Gen. E.	19	10	52.7%	1091.60	7	36.8%	1000.00	2	10.5%	957.50	-	-	-	-	-	-
47.1%	I. E.	17	9	52.9%	1075.00	8	47.1%	1087.50	-	-	-	-	-	-	-	-	-
49.1%	M. E.	57	29	50.9%	1073.76	21	36.8%	1036.29	4	7.0%	1157.00	3	5.3%	1066.00	-	-	-
30.0%	Met. E.	10	7	70.0%	1039.29	2	20.0%	1075.00	1	10.0%	975.00	-	-	-	-	-	-
100.0%	Min. E.	2	-	-	-	-	-	-	2	100.0%	987.50	-	-	-	-	-	-

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

42 to accept a position with greater opportunity
27 lack of advancement
19 dissatisfied with work
10 job not challenging
7 to accept position with more responsibility
4 to accept better job
3 to accept work in their particular field of engineering
3 too much travel
2 did not want shift work
2 desired to teach
2 dissatisfied with future
2 to go into sales
1 accepted senior engineers position
1 wanted to use legal education in patent field
1 wanted to try production
1 wanted to make use of M.B.A.
1 wanted to return to food industry
1 too much moving
1 no technicians
1 no advancement toward managerial level
1 lack of individual competition
1 engineers were required to do manual labor
1 dissatisfied with supervisor
1 was not placed in the department requested
1 desired to do research
1 delays in obtaining funds for projects

COMPANY POLICIES

9 poor management
4 did not care for company policies
3 did not like company
2 company had an engineers union
2 did not like the Federal Government policy
1 too slow paced
1 too much red tape
1 too much politics involved in getting ahead
1 poor development program

1 no opportunity for further education
1 no merit system
1 no management training
1 company not dynamic
1 dissatisfied with lack of rigorous approach to problems
1 did not like employment practices
1 conflicting ideas
1 company did not follow through on promises

SALARIES

25 more money
2 salary not commensurate with job and abilities
1 was teaching and needed a 12-month salary
1 dissatisfied with raises and working conditions

LOCATION

11 dissatisfied with company location
3 to move back to Chicago area
2 company moved
2 to relocate back in Midwest
1 wanted to move South
1 relocate in California because of climate
1 company moved and he did not want to move South
1 Florida more desirable location
1 did not like Connecticut

FURTHER EDUCATION

31 to return to graduate school
1 to take aviation training

LAY-OFFS

5 laid off
3 contract completed - laid-off
2 fired
1 government contract cut

(Cont'd.)

REASONS FOR CHANGING POSITIONS (continued)

PERSONAL REASONS

14 military service

4 to expand engineering experience

2 family problems

2 to start own business

1 too much driving

1 to gain varied experience in E.E.

1 to Peace Corps

1 marriage (female)

PRESENT GEOGRAPHIC LOCATION OF 1964 ENGINEERING GRADUATES

Location	All Engineers	Percent	Geographic Location 1964	Aero. E.	Ag. E.	Ceram. E.	Civil E.	E. E.	Eng. Mech.	Eng. Physics	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Illinois Chicago & Suburbs 97 Outside Chicago 65	162	47.0%	44.6%	2	1	3	39	54	3	2	8	11	34	4	1
California	51	14.8%	12.3%	9	-	-	8	25	-	-	3	1	4	1	-
Missouri	13	3.8%	6.1%	2	-	1	2	5	-	-	1	1	1	-	-
Ohio	11	3.2%	3.5%	1	-	3	-	1	-	-	1	-	5	-	-
Wisconsin	11	3.2%	5.2%	-	-	-	1	6	-	-	-	-	3	1	-
New York	10	2.9%	3.5%	-	-	-	-	5	1	1	-	1	2	-	-
Michigan	8	2.3%	3.5%	-	-	2	2	-	1	1	2	-	-	-	-
Texas	8	2.3%	1.7%	2	-	-	1	4	-	-	-	-	1	-	-
Indiana	6	1.7%	2.9%	-	-	1	2	3	-	-	-	-	-	-	-
Washington (state)	6	1.7%	1.7%	2	-	1	-	2	-	-	-	1	-	-	-
Colorado	5	1.4%	.6%	1	-	-	-	1	1	-	-	-	1	-	1
Florida	4	1.1%	-	2	-	-	1	1	-	-	-	-	-	-	-
Iowa	4	1.1%	1.4%	-	1	-	-	2	-	-	-	1	-	-	-
Maryland	4	1.1%	.6%	-	-	-	-	3	-	-	1	-	-	-	-
Minnesota	4	1.1%	.9%	-	-	-	-	2	-	-	-	-	2	-	-
Pennsylvania	4	1.1%	2.3%	-	-	-	-	1	-	-	1	-	-	2	-
Arizona	3	.9%	1.2%	-	-	-	-	2	-	-	-	-	1	-	-
Connecticut	3	.9%	.9%	-	-	-	-	1	-	-	-	-	2	-	-
Kentucky	3	.9%	.3%	-	-	-	1	1	-	-	-	-	1	-	-
Massachusetts	3	.9%	.3%	1	-	-	-	1	-	-	1	-	-	-	-
New Jersey	3	.9%	1.7%	-	-	1	-	2	-	-	-	-	-	-	-
Virginia	3	.9%	.6%	-	-	-	-	2	-	-	1	-	-	-	-
Washington, D.C.	3	.9%	.9%	-	-	-	-	3	-	-	-	-	-	-	-
Alabama	2	.6%	.6%	-	-	-	-	1	1	-	-	-	-	-	-
Hawaii	2	.6%	.3%	-	-	-	-	1	-	-	-	1	-	-	-
Tennessee	2	.6%	.6%	-	-	-	2	-	-	-	-	-	-	-	-
Georgia	1	.3%	-	-	-	-	-	1	-	-	-	-	-	-	-
Italy	1	.3%	-	-	-	-	-	1	-	-	-	-	-	-	-
Nebraska	1	.3%	-	1	-	-	-	-	-	-	-	-	-	-	-
Nevada	1	.3%	-	-	-	-	-	-	-	-	-	-	-	1	-
Rhode Island	1	.3%	-	-	-	-	-	-	1	-	-	-	-	-	-
South Carolina	1	.3%	-	-	-	-	-	-	1	-	-	-	-	-	-
West Virginia	1	.3%	-	-	-	-	-	-	-	-	-	-	-	1	-
Totals	345	100%		23	2	12	59	131	9	4	19	17	57	10	2

THE EMPLOYED 1964 GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING TYPES OF COMPANIES

Type of Company	All Engineers	Percent	1969 Average Salary	Aero. E.	Ag. E.	Ceram. E.	Civil E.	E. E.	Eng. Mech.	Eng. Physics	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Aircraft, Missile, & Space	45	13.0%	\$1111.08	16	-	2	3	11	3	-	2	2	6	-	-
Electronics	36	10.3%	1084.25	-	-	1	2	29	-	1	1	1	1	-	-
Heavy Equipment	28	8.1%	1057.78	1	1	-	2	2	3	-	3	1	12	2	1
Communications Equipment	22	6.4%	1064.00	950.	\$1145.	-	1269.	1059.	966.	-	915.	1150.	1062.	\$2150.	\$1175.
Metal & Metal Products	22	6.4%	1028.45	-	-	-	3	1	-	-	-	3	8	7	-
Data Processing & Business Machines	21	6.1%	1159.66	1	-	-	-	15	-	1	2	1	1	-	-
Public Utilities	19	5.5%	1030.21	1050.	-	-	3	9	1	1225.	1250.	1000.	1125.	-	-
Consulting Engineers	16	4.6%	978.00	-	-	-	12	3	1500.	-	1004.	1216.	1038.	-	-
Research Laboratories	14	4.1%	1143.00	1	1	-	7	7	-	1	-	-	2	1	1
State Governments	13	3.8%	945.76	1500.	-	1050.	-	1168.	-	1075.	-	-	1050.	1300.	800.
Federal Government	11	3.2%	1062.09	12	1	-	1	1	-	-	-	-	-	-	-
Automobile & Automotive Equipment	10	2.9%	1075.80	4	4	-	4	4	-	-	-	1	1	-	-
Electrical Equipment	10	2.9%	1067.20	1000.	-	-	974.	1181.	-	-	-	965.	1100.	-	-
Chemical & Chemical Products	9	2.6%	1106.22	-	1	-	1	2	1	1040.	-	1135.	1023.	-	-
Construction & Building Materials	9	2.6%	1098.33	-	-	-	7	1	-	-	1	-	-	-	-

(Continued on following page.)

THE EMPLOYED 1964 GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING TYPES OF COMPANIES (continued)

Type of Company	All Engineers	Percent	1969 Average Salary	Aero. E.	Ag. E.	Ceram. E.	Civil E.	E. E.	Eng. Mech.	Eng. Physics	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Controls & Instrumentation	9	2.6%	1136.22	-	-	-	-	6 1129.	-	-	2 1267.	-	1 920.	-	-
Schools	8	2.3%	1074.87	1150.	-	-	-	5 1020.	1 1125.	-	-	-	1 1222.	-	-
Food	7	2.0%	1073.71	-	-	-	1 1100.	1 1180.	-	-	-	1 1100.	4 1059.	-	-
Glass, Ceramics, & Refractories	7	2.0%	921.14	-	-	5 928.	-	-	-	-	1 850.	-	1 960.	-	-
City, County Govern.	6	1.7%	954.33	-	-	1 984.	5 948.	-	-	-	-	-	-	-	-
Petroleum	4	1.2%	1088.75	-	-	1 1100.	-	1 1125.	-	-	2 1065.	-	-	-	-
Heat, Air Conditioning	3	.9%	1350.00	-	-	-	-	1 1500.	-	-	-	-	2 1275.	-	-
Transportation	3	.9%	977.66	2 1025.	-	-	1 883.	-	-	-	-	-	-	-	-
Brokerage & Banking	2	.6%	800.00	-	-	-	1 1000.	1 600.	-	-	-	-	-	-	-
Conglomerate	2	.6%	1195.00	-	-	-	-	2 1195.	-	-	-	-	-	-	-
Paper & Printing	2	.6%	980.00	-	-	-	-	1 1125.	-	-	-	1 835.	-	-	-
Power Equipment	2	.6%	988.50	-	-	-	-	1 1127.	-	-	-	-	1 850.	-	-
Household Appliances	1	.3%	755.00	-	-	-	1 755.	-	-	-	-	-	-	-	-
Hydraulic & Pneumatic Components	1	.3%	1300.00	-	-	-	-	-	-	-	-	-	1 1300.	-	-
Public Accounting	1	.3%	1100.00	-	-	-	-	-	-	-	-	-	1 1100.	-	-
Shipbuilding	1	.3%	953.00	-	-	-	-	1 953.	-	-	-	-	-	-	-
Toys	1	.3%	1500.00	-	-	-	-	-	-	-	-	-	1 1500.	-	-
Totals	345	100.0%		23	2	12	59	131	9	4	19	17	57	10	2

SIZE OF ORGANIZATIONS IN WHICH THE 1964 GRADUATES ARE NOW EMPLOYED

	All Engineers	Aero. E.	Ag. E.	Ceram. E.	Civil F.	E. E.	Eng. Mech.	Eng. Physics	Gen. F.	I. E.	M. F.	Met. E.	Min. E.
Total Employed	345	23	2	12	59	131	9	4	19	17	57	10	2
0-50 Employees	28 8.1% \$1059.	1 4.3% \$ 800.	-	1 8.3% \$ 800.	14 23.7% \$1063.	4 3.0% \$1212.	-	-	2 10.5% \$1017.	1 5.9% \$1300.	3 5.3% \$1067.	1 10.0% \$1000.	1 50.0% \$ 800.
51-150 Employees	14 4.1% 984.	-	-	1 8.3% 984.	7 11.9% 960.	2 1.5% 959.	1 11.1% \$1125.	-	-	-	3 5.3% 1011.	-	-
151-500 Employees	28 8.1% 1032.	-	-	2 16.7% 930.	7 11.9% 920.	9 6.9% 1132.	1 11.1% 1049.	-	-	-	7 12.3% 1030.	1 10.0% 1075.	-
501-5000 Employees	99 28.7% 1059.	7 30.4% 1242.	1 50.0% \$1145.	3 25.0% 1034.	16 27.1% 973.	36 27.5% 1057.	3 33.3% 995.	-	4 21.0% 1015.	8 47.1% 1086.	17 29.8% 1058.	3 30.0% 1128.	1 50.0% 1175.
5000- 10,000 Employees	31 9.0% 1111.	-	1 50.0% 1250.	1 8.3% 1025.	4 6.8% 1228.	15 11.5% 1099.	-	1 25.0% \$1075.	1 5.3% 930.	2 11.8% 1053.	7 12.3% 1105.	-	-
Over 10,000 Employees	145 42.0% 1085.	15 65.3% 1104.	-	4 33.4% 1038.	11 18.6% 1046.	65 49.6% 1098.	4 44.5% 1156.	3 75.0% 1172.	12 63.2% 1067.	6 35.2% 1048.	20 35.0% 1078.	5 50.0% 988.	-

THE 345 RESPONDING, EMPLOYED 1964 ENGINEERING GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING COMPANIES

Advance Transformer Company	1 F.E.
AESCF Aero Club	1 A.A.F.
Air Products Chemicals Company	1 C.E.
Allegheny Ludlum	1 Met.E.
Allis-Chalmers Company	3 M.E., 1 A.A.E., 1 E.M.
Ambac Industries Incorporated	1 E.E.
Ampex Corporation	1 E.E.
Anaconda American Brass Company	1 Met.E.
Arthur Andersen and Company	1 M.E.
Anheuser-Busch and Company	1 E.F.
Argonne National Laboratories	1 E.E.
Guy F. Atkinson Company	1 C.E.
Avco Lycoming	1 E.M.
Babcock and Wilcox Company	1 M.E., 1 G.E.
Barber-Colman Company	2 E.F.
Barber-Greene Company	1 G.E., 1 Min.E.
Harland Bartholomew and Associates	1 C.F.
Battelle Memorial Institute	1 Ceram.E.
Bechtel Corporation	1 C.E., 1 E.E.
Beckman Instruments Company	1 E.F.
Behling Engineering Company	1 C.E.
Bell and Howell	1 E.P., 1 I.E.
Bell System: (21)	
A.T.T.	1 E.M., 1 C.E.
Bell Laboratories	5 F.E., 1 M.E.
Illinois Bell Telephone Company	3 E.E., 1 G.E., 1 I.E.
Teletype Corporation	3 E.F., 2 I.E., 1 G.E.
Western Electric Company	2 E.E.
Bendix Research Laboratories	1 E.P.
Boeing Company	3 E.E., 2 A.A.E., 1 Ceram.E., 1 I.E.
Borg Warner	1 Ceram.E., 1 E.E.
C. Brewer and Company Limited	1 I.E.
Brown University	1 F.M.
Burroughs Corporation	1 E.E.
Campbell Soup Company	1 M.E.
Carter Controls, Incorporated	1 M.E.
Caterpillar Company	1 E.E., 2 M.E., 2 Met.E., 1 C.E., 1 E.M.
Central Illinois Public Service Company	2 E.F.
Chicago Miniature Lamp Works	1 E.E.
Chicago Bureau of Engineering	1 Ceram.E.
Chrysler Corporation	1 G.F.
City of Salinas	1 C.E.
City of San Mateo	1 C.E.
City of West Covina	1 C.E.

C.P. Clare and Company	1 C.E.
Climate Control Corporation	1 M.E.
Collins Radio Company	4 E.E., 1 I.E.
Colonial Brick Company	1 Ceram.F.
Combustion Engineering Company	1 E.E.
Commonwealth Edison Company	1 E.E., 2 M.E.
Conductron Missouri	1 E.E.
Consumers Power Company	1 C.E.
Continental Illinois Bank and Trust Company	1 C.E.
Continental Can Company	1 Met.E.
Control Data Corporation	1 E.E.
Cook Electric Company	1 E.E.
CTS Knights, Incorporated	1 C.E.
Cutler Hammer, Incorporated	1 E.E.
Dailey and Associates	1 C.E.
Dart Industries	1 E.E.
De Leuw Cather and Associates	1 E.E., 1 C.E.
A.B. Dick Company	1 E.E.
R.R. Donnelly and Company	1 E.E.
Eastman Kodak Company	1 M.E., 1 F.P.
Electronic Associates	1 E.E.
Electronic Traffic Control	1 E.E.
Electromagnetic Systems Laboratory	1 E.E.
Elgin Joliet and Eastern Railroad	1 C.E.
Emerson Electric Company	1 I.E.
Esso Research and Engineering Company	1 Ceram.F.
Federal Aviation Agency	1 C.F.
Federal Sign Company	1 G.E.
Florissant Valley Community College	1 E.E.
F.M.C. Link Belt Company	1 M.E.
Ford Motor Company	1 Ceram.E., 1 E.M.
Fulton County Highway Department	1 C.E.
Garrett Airesearch Corporation	1 E.E.
General Dynamics Convair Division	1 G.F.
General American Transportation Company	1 M.F.
General Electric Company	2 E.E., 1 A.A.E., 1 G.E., 1 M.E.
General Foods	1 I.E.
General Motors: (4)	
Delco Division	1 E.E.
Fisher Body Division	1 G.E.
Electromotive Division	1 M.E.
Packard Electric Division	1 M.E.
General Telephone Company: (5)	
Automatic Electric Company	3 E.E.
General Telephone Company	1 C.E.
General Telephone Electronics Laboratory	1 E.E.
Globe Engineering Company	1 M.E.
G. and M. Electric Company	1 G.E.

Goodell Engineering Company	1 C.E.
Goss Company	1 E.E., 1 E.M., 1 M.E.
Gould National Battery Company	1 M.E.
Griffin Wheel Company	1 M.F.
Hanson, Walter E.	1 C.E.
Harnischfeger Corporation	1 C.E.
Hazeltine Corporation	1 E.E.
Hewlett-Packard Corporation	3 F.E.
Luther Hill Associates, Incorporated	1 C.E.
Horner and Shifrin	1 C.F.
Hughes Aircraft Company	1 A.A.E., 5 F.E.
Hutcheon Engineering Company	1 C.F.
Hydrotech Corporation	1 C.E.
Illinois Division of Highways	9 C.E.
Illinois Division of Waterways	2 C.E.
Illinois Power Company	1 E.E., 1 M.E.
Industrial Neucleonics	1 E.E.
Inland Steel Container Corporation	1 E.E.
Inland Steel Corporation	1 M.E.
International Harvester Company	1 G.E., 1 M.E.
I.B.M.	8 E.E., 1 E.P., 2 G.E., 1 A.A.E.
International Mineral and Chemical Corporation	1 Ag.E.
Intercontinental Systems, Dura Division	1 M.E.
I.T.E. Imperial	1 M.E.
John Deere Company	1 Ag.E., 1 M.F.
Johnson and Johnson	1 M.F.
Keystone Steel and Wire Company	1 Met.F.
Laboratory Equipment Company	1 Ceram.E.
Laicon, Incorporated	1 C.F.
Lawrence Radiation Laboratory	1 F.E.
Lockheed Corporation: (3)	
California Division	1 A.A.E.
Georgia Division	1 E.E.
Missile and Space Division	1 E.E.
MacLean-Fogg Company	1 M.E.
Magnavox	2 E.E.
Martin-Marietta Corporation: (3)	
Denver Division	1 A.A.E., 1 E.M.
Orlando Division	1 A.A.E.
Mattel, Incorporated	1 M.F.
McDonnell-Douglas: (16)	
Downey Division	1 A.A.E.
Huntington Beach Division	1 C.E.
Long Beach Division	2 A.A.E., 1 C.F.
St. Louis Division	1 A.A.F., 1 Ceram.E., 1 C.F., 2 E.E., 1 M.E.
Santa Monica Division	2 A.A.E., 1 M.E., 1 I.E.
Vandenburg AFB	1 F.E.
Mellon Institute	1 F.E.

Michigan Building Division	1 C.E.
Microdt, Incorporated	1 G.E.
Miles Laboratory	1 M.E.
Minnesota Mining	1 E.E.
M.I.T. Lincoln Laboratory	1 A.A.E.
Modine Manufacturing Company	1 M.E.
Moore Business Forms	1 I.E.
Moorman Manufacturing Company	1 M.E.
Motorola: (10)	
Chicago	7 E.E.
Phoenix	1 E.E., 1 M.E.
Scottsdale	1 E.E.
National Security Administration	1 E.E.
National Mine Service Company	2 M.E.
National Gas Pipeline Company	1 E.E.
Newport News Shipbuilding Company	1 E.E.
North American Aviation: (2)	
Autonetics	1 E.E.
Rocketdyne	1 E.E.
Northrup Corporation	1 E.M.
Norton Company	1 G.E.
Novotony Associates	1 C.E.
O'Brien Corporation	1 G.F.
Olin Mathieson Corporation	1 M.E.
Owens Corning Fiberglass Corporation	1 Ceram.E.
Parker Hannifin Corporation	1 M.E.
Peoples Gas, Light and Coke Company	1 G.F.
Phelps Dodge Corporation	1 C.E.
Pollack and Scan	1 E.E.
H.K. Porter - Chicago Works	1 E.E.
P.P.G. Industries	1 Ceram.E., 1 M.E.
Pratt and Whitney	1 A.A.E., 1 M.F.
Procter and Gamble	1 E.E.
Pyle National Company	1 I.E.
R.C.A.	1 E.E.
Raytheon Corporation	2 E.E.
Rex Chainbelt Company	1 I.E.
Reynolds and Company	1 E.E.
Rohr Corporation	1 M.E.
Russell, Burdsall and Ward	1 M.E.
Sangamo Electric Company	1 E.F.
Savanna Army Depot	1 C.F.
Scam Instrument Company	1 E.E.
Shell Oil Company	1 G.F.
Sherwin Williams Corporation	1 I.E.
J.L. Simmons Company	1 C.F.
A.O. Smith Corporation	1 M.E.
Span-Deck Incorporated	1 C.F.

Sprague Electric Company	1 F.F.
St. Regis Paper Company	1 M.E.
Staley Manufacturing Company	1 C.E.
Standard Oil Company of California	1 E.F.
Stewart-Warner Corporation	1 M.E.
Sun Oil Co.	1 G.F.
Sundstrand Aviation	1 M.E.
Super Electronic Construction Company	1 E.E.
Texas Instruments Company	2 E.E.
Titanium Metals Corporation of America	1 Met.E.
Trane Company	1 E.E., 1 M.E.
T.R.W. Corporation	2 A.A.E., 1 E.E.
Turner Construction Company	1 C.E.
Union Special Machine Company	1 I.E.
United Airlines	1 A.A.E.
University of California	1 E.E.
University of Illinois	1 F.E., 1 M.E.
University of Nebraska	1 A.A.F.
Univac	1 E.E.
Universal Finishing Company	1 Met.F.
Universal Bleacher Company	1 C.E.
U.S. Army Corps of Engineers	1 C.E.
U.S. Army Aviation Command	1 A.A.E.
U.S. Army Weapons Center	1 M.E.
U.S. Bureau of Mines	1 Min.F.
U.S. Naval Electronics Systems Command	1 F.F.
U.S. Naval Electronics Laboratory	1 F.F.
U.S. Naval Ordnance Station Forest Park	1 I.E.
U.S. Navy Facilities Engineering Command	1 F.E.
U.S. Navy Ordnance Systems Command	1 E.F.
U.S. Steel Corporation	1 C.E.
Veterans Administration	1 C.E.
Victor Comptometer Corporation	1 F.F.
Village of Niles	1 C.E.
Virginia Polytechnic Institute	1 E.F.
A.P. Wagenknecht Company	1 M.E.
Weber Metal Products Company	1 I.E.
Wierton Steel Company	1 Met.E.
Western Traffic Controls Incorporated	1 C.E.
Westinghouse Electric Corporation	1 Met.F.
Whirlpool Corporation	2 C.E.
White Motor Company	1 M.E.
Will County Produce Company	1 M.E.
Willett, Hoffman and Associates, Incorporated	1 C.E.
Wisconsin State University	1 E.E.
Wisconsin Power and Light Company	1 E.E.
Wyman Gordon Company	1 M.E.
Xerox Corporation	1 E.E.
Zenith Radio Corporation	1 Ceram.E., 1 E.E.

PRESENT FIELD OF PRIMARY RESPONSIBILITY

Field	All Engineers	Percent	1969 Average Salary	Aero. E.	Ag. E.	Ceram. E.	Civil E.	E. E.	Eng. Mech.	Eng. Physics	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Design	62	18.0%	\$1055.	4	1	1	14	20	3	-	1	-	18	-	-
Development	49	14.1%	1039.	4	-	4	1	31	1	-	1	-	6	1	-
Management or Administration	45	13.0%	1111.	-	-	1	9	16	1	-	5	6	6	-	1
Systems Engineering	32	9.2%	1067.	3	-	-	1	24	-	1	-	2	1	-	-
Research	29	8.4%	1079.	6	-	2	1	8	1	1	1	1	2	5	1
Sales	27	7.8%	1153.	-	-	-	3	11	-	-	4	1	7	1	-
Construction	19	5.5%	1023.	-	-	-	16	2	-	-	-	-	890.	-	-
Manufacturing	14	4.1%	1045.	-	-	-	1	1002.	-	-	3	3	6	1	-
Field Engineering	13	3.8%	1034.	-	-	1	4	5	-	-	2	-	1	-	-
Teaching	10	2.9%	1048.	2	-	-	1	4	1	1	-	-	1	-	-
Consulting	8	2.3%	1129.	1	-	-	6	-	-	-	-	-	1	-	-
Production	7	2.0%	964.	-	-	2	-	-	-	-	-	2	2	1	-
Testing & Analysis	6	1.7%	1187.	-	1	1	1	2	1	-	-	-	-	-	-
Specifications & Estimating	4	1.2%	1001.	-	-	-	2	1	-	-	-	-	1	-	-
Data Processing	3	.9%	1105.	-	-	-	-	2	1	-	-	-	-	-	-
Quality Control	3	.9%	1035.	-	-	-	-	1	-	1	-	-	-	1	-

(Continued on following page.)

PRESENT FIELD OF PRIMARY RESPONSIBILITY (continued)

Field	All Engineers	Percent	1969 Average Salary	Aero. E.	Ag. E.	Ceram. E.	Civil E.	E. E.	Eng. Mech.	Eng. Physics	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Service	3	.9%	1075.	2 1100.	-	-	-	-	-	-	-	-	1 1025.	-	-
Applications	2	.6%	970.	-	-	-	-	1 1040.	-	-	-	-	1 900.	-	-
Company Owner	2	.6%	1150.	-	-	-	-	-	-	-	-	1 1300.	1 1000.	-	-
Patent Law	2	.6%	1011.	-	-	-	-	1 1042.	-	-	1 980.	-	-	-	-
Purchasing	2	.6%	955.	-	-	-	-	1 870.	-	-	-	-	1 1040.	-	-
Corporate Planning	1	.3%	1150.	-	-	-	-	-	-	-	-	1 1150.	-	-	-
Pilot	1	.3%	1250.	1 1250.	-	-	-	-	-	-	-	-	-	-	-
Technical Writing	1	.3%	930.	-	-	-	-	-	-	-	1 930.	-	-	-	-
Totals	345	100.0%		23	2	12	59	131	9	4	19	17	57	10	2

PRESENT LEVEL OF RESPONSIBILITY

Present Level of Responsibility	All Engineers	Percent	1969 Average Salary	Aero. E.	Ag. E.	Ceram. F.	Civil E.	F. E.	Eng. Mech.	Eng. Physics	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Individual in a Group	175	51.2%	\$1043.	18	1	7	20	75	3	1	12	3	30	4	1
Supervise a Small Group	125	36.5%	1068.	3	1	4	29	44	5	2	5	7	20	5	-
Manage Major Group or Department	27	7.8%	1153.	-	-	-	5	8	1	1	1	4	5	1	1
Plant Manager or Superintendent	4	1.2%	1125.	-	-	1	2	-	-	-	-	1	-	-	-
Individual in Private Practice	3	.9%	1498.	1	-	-	-	1	-	-	-	-	1	-	-
Branch Manager	2	.6%	1300.	-	-	-	1	1	-	-	-	-	-	-	-
Top Executive	1	.3%	1150.	-	-	-	-	-	-	-	-	1	-	-	-
Other not Identified	5	1.5%	1075.	-	-	-	2	-	-	-	1	1	1	-	-
Total	342 ¹	100.0%		22	2	12	59	129	9	4	19	17	57	10	2

¹ 3 respondents did not give this information.

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.	E. E.	Eng. Mech.	Eng. Physics	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
None	25 7.2%	2 8.7%	- -	1 8.3%	3 5.1%	7 5.4%	1 11.1%	- -	1 5.3%	4 23.5%	6 10.5%	- -	- -
1-3	62 18.0%	1 4.3%	1 50.0%	3 25.0%	15 25.4%	18 13.7%	1 11.1%	- -	5 26.3%	4 23.5%	10 17.5%	3 30.0%	1 50.0%
4-10	111 32.2%	4 17.5%	- -	3 25.0%	22 37.3%	44 33.6%	- -	2 50.0%	6 31.5%	6 35.3%	22 38.6%	1 10.0%	1 50.0%
11-20	41 11.9%	4 17.4%	- -	2 16.7%	4 6.8%	15 11.5%	1 11.1%	- -	3 15.8%	- -	9 15.8%	3 30.0%	- -
21-50	55 15.9%	2 8.7%	1 50.0%	3 25.0%	9 15.3%	26 19.8%	3 33.4%	2 50.0%	3 15.8%	1 5.9%	4 7.0%	1 10.0%	- -
51-100	31 9.0%	6 26.1%	- -	- -	4 6.8%	11 8.4%	2 22.2%	- -	1 5.3%	- -	5 8.8%	2 20.0%	- -
101-300	8 2.3%	1 4.3%	- -	- -	- -	5 3.8%	- -	- -	- -	2 11.8%	- -	- -	- -
Over 300	12 3.5%	3 13.0%	- -	- -	2 3.3%	5 3.8%	1 11.1%	- -	- -	- -	1 1.8%	- -	- -
Total	345	23	2	12	59	131	9	4	19	17	57	10	2

QUESTIONS CONCERNING CURRICULUM

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

Order of Importance

Degree	1st	2nd	3rd	4th	5th	6th
M.B.A.	47.9 154	17.1% 55	7.5% 24	.6% 2	1.0% 3	.6% 2
M.S. in Original Field	15.8% 51	17.4% 56	12.7% 41	1.5% 5	.3% 1	1.5% 5
Ph.D. in Original Field	12.4% 40	11.5% 37	12.1% 39	1.9% 6	.6% 2	1.3% 4
Law	7.8% 25	16.1% 52	9.3% 30	1.5% 5	1.0% 3	1.3% 4
M.S. in Another Technical Field	7.5% 24	9.0% 29	13.4% 43	2.3% 8	2.3% 8	1.0% 3
Ph.D. in Another Technical Field	4.3% 14	3.7% 12	7.5% 24	1.9% 6	2.2% 7	1.5% 5
Other	4.3% 14 ²	1.9% 6 ³	5.0% 16 ⁴	1.3% 5	1.3% 6	1.3% 6
No Choice Listed	-	23.3% 75	32.5% 105	90.0% 289	92.3% 297	92.5% 298
Totals	322 ¹	322	322	322	322	322

¹ 23 respondents did not answer this question.

² 5 no degree mentioned
 2 medical degree
 2 Ph.D. in Business
 2 Ph.D. in Economics
 1 B.S. in E.E.
 1 non-technical degree
 1 Professional Engineer
14

³ 4 no degree mentioned
 1 B.S. in Marketing
 1 Ph.D. in Business
6

⁴ 13 no degree mentioned
 1 B.S. Degree in another technical field
 1 B.S. in E.E.
 1 Municipal Administration
16

⁵ 1 Marketing
1

⁶ 2 no degree mentioned
2

(Cont'd.)

QUESTIONS CONCERNING CURRICULUM (continued)

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

235	68.2%	A specialized undergraduate curriculum (e.g. M.E., E.E., etc.)
49	14.2%	A common undergraduate engineering curriculum (no specialization)
26	7.5%	Another type of undergraduate professional curriculum (e.g. pre-law, pre-medicine, etc.)
14	4.1%	A business administration curriculum
9	2.6%	Another type of curriculum in mathematics or the physical sciences (e.g. Physics or Chemistry)
7 ¹	2.0%	Other
5	1.4%	A Liberal Arts curriculum
<u>345</u>		

¹ No choice mentioned.

QUESTIONS CONCERNING PRESENT POSITION AND ITS RELATION TO THEIR UNDERGRADUATE DEGREE

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

Yes:	296	85.8%
No:	<u>49</u>	<u>14.2%</u>
	345	100.0%

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

Most or all	109	31.6%
Some	167	48.4%
Very little	64	18.6%
None	<u>5</u>	<u>1.4%</u>
	345	100.0%

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? (Only 151 of the 345 respondents who were employed answered this question.)

Yes:	17
No:	<u>134</u>
	151

The 17 who answered "yes" gave the following reasons:

- "I am working toward a management position"
- "My position is the highest technical position; higher positions are administrative ones"
- "Limited knowledge"
- "That's the game industry plays"
- "Most other members have or are working on an M.S."
- "More business knowledge would be helpful"
- "Advanced degrees are important for progress"
- "Too much competition"
- "My personal growth could benefit by the formal education"
- "Company suffers from Ph.D.-itis"
- "Rate of rise is somewhat limited"
- "Require more non-technical knowledge"
- "Lack of education is always a limiting factor"
- "Based upon the positions that holders of advanced degrees have"
- "Company is more oriented to sales and business operations"

Two respondents merely checked "yes" but gave no reason.

QUESTIONS CONCERNING PROFESSIONAL DEVELOPMENT

QUESTION: Have you become registered as a:

Professional Engineer	45
Engineer in Training	89
Structural Engineer	0
Surveyor	<u>1</u>
	135 - 39.1% of those employed

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

Yes 200 - 58% of those employed

QUESTION CONCERNING COMMUNITY PARTICIPATION

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

Church	67
Service Clubs	31
Boy Scouts or Other Youth Groups	26
Political Organizations	10
School Board	1
Other (not identified)	<u>41</u>
	176 - 51.0% of those employed

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