



1973 SURVEY REPORT

STARTING SALARIES AND EMPLOYMENT STATUS OF
CHEMISTRY AND CHEMICAL ENGINEERING GRADUATES

Office of Manpower Studies
American Chemical Society
Washington, D.C.



American Chemical Society

DEPARTMENT OF PROFESSIONAL
RELATIONS AND MANPOWER STUDIES

1155 SIXTEENTH STREET, N.W.
WASHINGTON, D.C. 20036
Phone (202) 872-4600

1973 SURVEY REPORT STARTING SALARIES AND EMPLOYMENT STATUS OF CHEMISTRY AND CHEMICAL ENGINEERING GRADUATES

This survey is the 22nd in the series of annual surveys conducted by the American Chemical Society to follow the trends in beginning salaries in the chemical profession. Names and addresses of 1973 graduates at all degree levels were provided by 502 departments of chemistry approved by the ACS and 115 departments of chemical engineering accredited by the American Institute of Chemical Engineers and the Engineers' Council for Professional Development -- these departments, respectively, grant approximately 75% of all chemistry and 90% of all chemical engineering degrees granted in the U.S.

Of about 16,500 names and addresses provided by the departments mentioned above, 11,240, or 68%, were usable. Questionnaires were sent out during the summer, and 4,954 responses (44% of the questionnaires mailed out) were received and used in total or in part for this report.

Highlights

Compared with a year ago:

- . Overall employment rates went up significantly for both chemists and chemical engineers (table #2).
- . The percentages of new graduates who plan further advanced studies in another field went up for all degree levels (table #3).
- . Chemists' starting salaries increased substantially. Chemical engineers had more modest gains, but their salaries still exceed those of chemists (table #7).

Of those graduates who plan further advanced studies in another field, most chemists go into medicine, most chemical engineers go into business administration (table #3).

Prepared by the Office of
Manpower Studies

February, 1974

Table # 1
PROFESSIONAL STATUS OF NEW GRADUATES
By Field, Degree and Sex

	BACHELORS			MASTERS			DOCTORS		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	%	%	%	%	%	%	%	%	%
CHEMISTS - Total Sample	2140	521	2661	315	111	426	490	62	552
Full-time employed	23.5	32.2	25.2	46.7	54.0	48.6	49.6	45.2	49.1
Part-time employed	2.4	3.8	2.7	1.0	0.9	0.9	1.8	-	1.6
Employed outside field	10.4	10.9	10.5	5.7	5.4	5.6	2.2	3.2	2.4
Unemployed, seeking emp.*	2.6	3.3	2.7	3.2	3.6	3.3	2.7	3.2	2.7
Not seeking employment	0.7	1.9	0.9	1.0	5.4	2.1	0.4	6.5	1.1
Military/Peace Corps, etc.	2.7	0.6	2.3	1.6	-	1.2	1.0	-	0.9
Students:**									
Postdoctoral/grad. asst.	23.0	21.9	22.8	33.3	18.0	29.3	40.0	40.3	40.0
Graduate school	7.2	6.1	7.0	4.8	9.0	5.9	-	-	-
Grad. school other field	28.4	29.8	36.7	14.0	10.8	13.1	4.7	3.2	4.5
Seeking employment	1.9	1.9	1.9	1.9	0.9	1.6	3.7	4.8	3.8
CHEM. ENG. - Total Sample	922	31	953	212	3	215	108	-	108
Full-time employed	61.3	80.6	61.9	59.0	33.3	58.6	77.8	-	77.8
Part-time employed	1.1	-	1.0	-	-	-	0.9	-	0.9
Employed outside field	7.4	-	7.1	6.6	14	6.5	4.6	-	4.6
Unemployed, seeking emp.*	2.4	-	2.4	-	-	-	1.9	-	1.9
Not seeking employment	0.4	-	0.4	2.8	6	3.3	-	-	-
Military/Peace Corps, etc.	3.1	-	3.0	3.8	8	3.7	1.9	-	1.9
Students:**									
Postdoctoral/grad. asst.	13.2	12.9	13.2	17.9	38	17.7	12.0	-	12.0
Graduate school	6.7	12.9	6.9	5.2	11	5.1	-	-	-
Grad.school other field	17.1	12.9	17.0	9.4	20	9.8	2.8	-	2.8
Seeking employment	1.2	-	1.2	2.4	5	2.3	5.6	-	5.6

NOTE: Percentage columns represent percentages of the total sample for each group.

* Single answers only. Figures do not include students indicating they were unable to obtain employment.

** Multi-choice replies were tallied for this table; some students indicated some employment category, thus, the total number of responses is higher than the total sample.

Table #2

EMPLOYMENT STATUS OF NEW GRADUATES

By Field and Degree

1972-1973

	CHEMISTS				CHEMICAL ENGINEERS							
	Bachelors		Master		Bachelors		Masters		Doctors			
	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973		
Full-time employed	19.7	25.2	42.5	48.6	41.7	49.1	48.9	61.9	57.5	58.6	76.2	77.8
Part-time employed	4.0	2.7	1.8	0.9	1.8	1.6	1.8	1.0	0.7	-	0.8	0.9
Employed outside field	7.0	10.5	5.5	5.6	2.3	2.4	6.9	7.1	1.7	6.5	3.2	4.6
Unemployed, seeking emp.*	5.4	2.7	4.5	3.3	3.4	2.7	10.0	2.4	4.8	-	4.8	1.9
Not seeking employment	-	0.9	-	2.1	-	1.1	-	0.4	-	3.3	-	-
Military/Peace Corps, etc.	3.6	2.3	3.8	1.2	1.9	0.9	6.2	3.0	3.4	3.7	1.6	1.9
Students**	60.3	55.7	41.9	38.3	48.9	42.2	26.2	24.2	31.9	27.9	13.4	12.9

* Does not include students indicating they were unable to obtain employment.

** Includes only those students who are not also employed.

Table #3 GRADUATE SCHOOL OTHER FIELD

	CHEMISTS			CHEMICAL ENGINEERS		
	Bachelors %	Masters %	Doctors %	Bachelors %	Masters %	Doctors %
Medicine	57.3	14.3	40.0	16.7	4.8	-
Dentistry	8.3	1.8	-	1.9	-	-
Pharmacy	3.2	14.3	4.0	-	-	-
Law	1.3	3.6	4.0	9.3	19.0	-
Business Administration	8.6	21.4	12.0	53.7	57.1	66.7
Other Physical Science	2.3	8.9	4.0	3.7	9.5	-
Other Biological Science	7.7	14.3	36.0	4.9	-	33.3
Other	11.3	21.4	-	9.9	9.5	-
Total Responses	976	56	25	162	21	3
Total Sample	2661	426	552	953	215	108
Percentage of Sample	36.7	13.1	4.5	17.0	9.8	2.8
1972 percentage of sample	32.3	9.1	2.9	12.8	7.8	0
Change	4.4	4.0	1.6	4.2	2.0	2.8

NOTE: Respondents indicating graduate study in a field other than chemistry or chemical engineering.

Table #4 CITIZENSHIP OF NEW GRADUATES

By Field and Degree

	<u>U.S. Citizen</u>		<u>Non-U.S. Citizen</u>		Total Responses
	%	No.	%	No.	
CHEMISTS					
Bachelors	98.1	2591	1.9	51	2642
Masters	85.2	362	14.8	63	425
Doctors	87.2	479	12.8	70	549
Overall Chemists	94.9	3432	5.1	184	3616
CHEMICAL ENGINEERS					
Bachelors	96.8	916	3.2	30	946
Masters	80.0	172	20.0	43	215
Doctors	72.9	78	27.1	29	107
Overall Chem.Eng.	92.0	1166	8.0	102	1268

Table #5 MINORITY GROUP CLASSIFICATION

By Field, Degree, and Sex

CHEMISTS	BACHELORS			MASTERS			DOCTORS									
	Male		Total	Male		Total	Male		Total							
	%	No.	%	No.	%	No.	%	No.	%	No.						
Non-minority	94.1	2013	93.6	2492	88.9	280	84.7	94	87.8	431	90.3	56	88.1	487		
Black/Negro	2.0	42	2.3	60	1.9	6	2.7	3	2.1	9	-	-	1.4	8		
American Indian	0.1	2	0.2	4	-	-	-	-	-	-	-	-	-	-		
Oriental	3.1	67	3.2	86	8.9	28	9.9	11	9.1	39	9.6	47	8.1	5		
Spanish-American*	0.7	16	0.7	19	0.3	1	2.7	3	0.9	4	1.0	5	1.6	1		
Total		2140		2661		315		111		426		491		62	553	
CHEMICAL ENGINEERS																
Non-minority	96.1	886	95.8	913	84.9	180	33.3	1	84.2	181	80.6	87	-	80.6	87	
Black/Negro	0.4	4	0.4	4	-	-	-	-	-	-	-	-	-	-	-	
American Indian	0.1	1	0.1	1	-	-	-	-	-	-	-	-	-	-	-	
Oriental	2.9	27	3.3	31	14.6	31	66.7	2	15.3	33	17.6	19	-	17.6	19	
Spanish-American*	0.4	4	0.4	4	0.5	1	-	-	0.5	1	1.9	2	-	1.9	2	
Total		922		953		212		3		215		108		-	108	
OVERALL																
Non-minority	94.7	2899	94.2	3405	87.3	460	83.3	95	86.6	555	86.5	518	90.3	56	86.8	574
Black/Negro	1.5	46	1.8	64	1.1	6	2.6	3	1.4	9	1.3	8	-	-	1.2	8
American Indian	0.1	3	0.1	5	-	-	-	-	-	-	-	-	-	-	-	-
Oriental	3.1	94	3.2	117	11.2	59	11.4	13	11.2	72	11.0	66	8.1	5	10.7	71
Spanish-American*	0.7	20	0.6	23	0.4	2	2.6	3	0.8	5	1.2	7	1.6	1	1.2	8
Total		3062		3614		527		114		641		599		62		661

* Defined by EEOC to include persons of Mexican, Puerto Rican, Cuban or Spanish origin.

Table #6

AGE DISTRIBUTION OF NEW GRADUATES

By Field, Degree, and Sex

	B.S. CHEMISTS						B.S. CHEMICAL ENGINEERS					
	Male		Female		Overall		Male		Female		Overall	
	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
<20	0.7	14	1.0	5	0.7	19	0.2	2	3.2	1	0.3	3
21	6.8	146	15.4	80	8.5	226	3.3	30	9.7	3	3.5	33
22	58.5	1251	63.5	331	59.5	1582	52.9	488	64.5	20	53.3	508
23	16.9	361	10.4	54	15.6	415	27.9	257	16.1	5	27.5	262
24	4.6	98	4.2	22	4.5	120	5.2	48	3.2	1	5.1	49
25	2.2	47	0.6	3	1.9	50	2.2	20	-	-	2.1	20
26	3.0	65	0.6	3	2.6	68	2.4	22	-	-	2.3	22
27	2.2	48	1.2	6	2.0	54	2.2	20	-	-	2.1	20
28	1.0	22	0.4	2	0.9	24	0.9	8	-	-	0.8	8
29	1.0	21	-	-	0.8	21	1.0	9	3.2	1	1.0	10
30-34	2.0	43	1.3	7	1.9	50	1.0	9	-	-	1.0	9
35-39	0.7	12	0.6	3	0.6	15	0.1	1	-	-	0.1	1
40-49	-	-	0.4	2	0.1	2	-	-	-	-	-	-
>50	0.0	1	-	-	0.0	1	-	-	-	-	-	-
N.R.	0.4	11	0.6	3	0.4	14	0.9	8	-	-	0.8	8
Total		2140		521		2661		922		31		953

Table #6a AGE DISTRIBUTION OF NEW GRADUATES

By Field, Degree and Sex

	M.S. CHEMISTS			M.S. CHEMICAL ENGINEERS		
	Male %	Female %	Overall %	Male %	Female %	Overall %
<20	-	-	-	-	-	-
20-21	-	1.8	0.5	0.5	-	0.5
22	-	1.8	2.1	2.3	-	2.3
23	2.2	6.3	4.0	13.7	-	13.5
24	3.2	24.3	15.3	20.8	33.3	20.9
25	12.1	23.4	23.9	15.1	-	14.9
26	24.1	17.1	16.4	17.9	-	17.7
27	16.2	8.1	10.6	8.0	-	7.9
28	11.4	2.7	8.0	5.7	33.3	6.0
29	9.8	3.6	4.0	5.2	33.3	5.6
30-34	4.1	8.1	11.3	7.5	-	7.4
35-39	12.4	1.0	1.6	1.4	-	1.4
40-49	1.9	1.8	1.2	0.5	-	0.5
≥50	1.0	-	0.5	0.9	-	0.9
N.R.	0.6	-	0.7	0.5	-	0.5
Total	1.0	-	0.7	0.5	3	0.5
	315	111	426	212	3	215

Table #6b

AGE DISTRIBUTION OF NEW GRADUATES

By Field, Degree, and Sex

	Ph.D. CHEMISTS			Ph.D. CHEMICAL ENGINEERS		
	Male %	Female %	Overall %	Male %	Female %	Overall %
<24	0.2	-	0.2	-	-	-
25	2.0	3.2	2.2	0.9	-	0.9
26	8.1	16.1	9.0	4.6	-	4.6
27	21.0	21.0	21.0	19.4	-	19.4
28	16.5	12.9	16.1	18.5	-	18.5
29	11.6	9.7	11.4	13.0	-	13.0
30	11.0	8.1	10.7	11.1	-	11.1
31	7.7	9.7	8.0	12.0	-	12.0
32	5.3	-	4.7	5.6	-	5.6
33	4.9	6.5	5.1	4.6	-	4.6
34	2.9	3.2	2.9	3.7	-	3.7
35-39	5.1	3.2	4.9	5.6	-	5.6
40-49	2.2	4.8	2.5	0.9	-	0.9
>50	0.2	-	0.2	-	-	-
N.R.	1.2	1.6	1.3	-	-	-
Total	491	62	553	108	-	108

Table #7 STARTING SALARY BY DEGREE AND FIELD

	CHEMISTS*		CHEMICAL ENGINEERS*			
	Bachelors**	Masters	Doctors	Bachelors	Masters	Doctors
Lower 10%	\$ 7,200	\$ 7,700	\$ 9,100	\$10,900	\$11,300	\$11,400
Lower 25%	7,800	9,000	10,800	11,300	12,000	13,600
Median	9,000	10,500	14,900	11,600	12,900	16,400
Upper 75%	10,000	11,600	16,000	11,900	13,200	17,100
Upper 90%	10,600	12,200	16,800	12,000	13,500	17,700
1972 Median	8,300	9,600	13,300	11,000	12,500	16,300
Change	8.4%	9.4%	12.0%	5.5%	3.2%	0.6%

* Inexperienced graduates with less than one year of prior work experience.

** Includes ACS certified and noncertified graduates

Table #8 CHEMIST'S MEDIAN STARTING SALARY
by Sex, Degree, and Employer Classification

	Male		Female		Overall	
	%	Salary	%	Salary	%	Salary
BACHELORS						
Overall		\$ 9000		\$ 8500		\$ 9000
Industry	78.3	9600	60.0	9600	73.0	9600
College/university	3.5	7500	9.3	7200	5.2	7200
High school/other	6.4	7800	7.1	7600	6.6	7800
Federal government	3.2	7700	3.6	7700	3.3	7700
State/local government	3.2	8000	4.3	7300	3.5	7900
Hospital, ind. lab.	4.3	8000	13.6	8000	7.0	8000
Non-profit organization	1.2	8700	1.4	na	1.2	7900
Other	-	na	0.7	na	0.2	na
MASTERS						
Overall		\$ 10600		\$ 9500		\$ 10500
Industry	63.0	11400	52.6	11000	59.7	11100
College/university	12.3	9100	18.4	7800	14.3	8000
High school/other	4.9	9200	10.5	10200	6.7	9800
Federal government	6.2	9500	-	na	4.2	9500
State/local government	7.4	9600	5.3	na	6.7	9200
Hospital/ind. lab.	2.5	na	10.5	8700	5.0	8700
Non-profit organization	3.7	11000	-	na	2.5	8500
Other	-	na	2.6	na	0.8	na
DOCTORS						
Overall		\$ 15000		\$ 14400		\$ 14900
Industry	55.6	15600	50.0	15600	55.2	15600
College/university	33.8	10500	50.0	8800	35.2	10300
High school/other	0.8	na	-	na	0.7	na
Federal government	1.5	na	-	na	1.4	na
State/local government	1.5	na	-	na	1.4	na
Hospital/ind. lab.	3.0	13000	-	na	2.8	13000
Non-profit organization	2.3	10800	-	na	2.1	10800
Other	1.5	na	-	na	1.4	na

Table #9
 CHEMICAL ENGINEERS MEDIAN STARTING SALARY
 by Degree, and Employer Classification

	Bachelors		Masters		Doctors	
	%	Salary	%	Salary	%	Salary
Overall	97.0	\$11600	93.0	\$12900	78.9	\$16400
Industry	-	11600	-	13000	15.8	16800
College/university	-	na	-	na	-	na
High school/other	-	na	-	na	-	na
Federal government	2.1	8000	5.6	11600	-	na
State/local govern.	0.7	9900	-	na	-	na
Hospital/independent lab.	-	na	-	na	-	na
Non-profit organization	0.2	na	-	na	-	na
Other	-	na	1.4	na	5.3	na

Table #10 CHEMISTS MEDIAN STARTING SALARY
by Degree and Field of Chemical Specialty

	<u>Masters</u>	<u>Doctors</u>
Overall Median	\$10500	\$14900
Analytical Median	\$11700	\$14000
Percentage	14.5	13.1
Biochemistry Median	\$ 9500	\$12000
Percentage	17.9	4.8
Inorganic Median	\$10600	\$14000
Percentage	9.4	14.5
Literature Median	na	na
Percentage	-	-
Organic Median	\$10400	\$14900
Percentage	42.7	35.9
Physical Median	\$11700	\$15400
Percentage	8.5	25.5
Polymer Median	na	na
Percentage	1.7	1.4
Other Median	\$10900	\$14400
Percentage	5.1	4.8

Table #11

MEDIAN STARTING SALARY
by Field, Degree and Geographic Location

	Chemists		Chemical Eng.
	Bachelors	Doctors	Bachelors
New England			
Median	\$ 8500	\$12800	\$11400
Percentage	9.0	9.8	4.6
Middle Atlantic			
Median	\$ 9400	\$15600	\$11500
Percentage	24.3	28.7	25.9
East North Central			
Median	\$ 9300	\$13000	\$11600
Percentage	27.5	12.6	18.3
West North Central			
Median	\$ 8900	\$13200	\$11300
Percentage	8.0	6.3	4.1
South Atlantic			
Median	\$ 8500	\$15000	\$11600
Percentage	11.9	21.0	16.7
East South Central			
Median	\$ 9100	\$11800	\$11700
Percentage	3.6	2.8	8.2
West South Central			
Median	\$ 8500	\$11000	\$11700
Percentage	5.7	3.5	14.0
Mountain			
Median	\$ 8400	\$14200	\$11400
Percentage	1.7	5.6	1.8
Pacific			
Median	\$ 9000	\$14200	\$11700
Percentage	8.4	9.8	6.4

STATES/REGIONS

1. Pacific

Washington
Oregon
California
Alaska
Hawaii

2. Mountain

Montana
Idaho
Wyoming
Nevada
Utah
Colorado
Arizona
New Mexico

3. West North Central

North Dakota
Minnesota
South Dakota
Iowa
Nebraska
Kansas
Missouri

4. West South Central

Oklahoma
Arkansas
Texas
Louisiana

5. East North Central

Wisconsin
Michigan
Illinois
Indiana
Ohio

6. East South Central

Kentucky
Tennessee
Mississippi
Alabama

7. Middle Atlantic

New York
Pennsylvania
New Jersey

8. South Atlantic

Delaware
Maryland
West Virginia
District of Columbia
Virginia
North Carolina
South Carolina
Georgia
Florida

9. New England

Maine
New Hampshire
Vermont
Massachusetts
Connecticut
Rhode Island

COMPARISON OF ACS CERTIFIED AND NON-CERTIFIED

B.S. CHEMISTRY GRADUATES

Table #12 Professional Status

	<u>Certified</u>		<u>Non-certified</u>	
	%	No.	%	No.
Total Sample		1408		1253
Full-time employed	29.7	418	20.1	252
Part-time employed	2.6	36	2.9	36
Employed outside field	7.7	108	13.6	171
Unemployed, seeking emp.*	2.6	36	2.9	36
Not seeking employment	0.8	11	1.0	13
Military/Peace Corps, etc.	2.9	41	1.5	19
Students:**				
Graduate assistant	31.7	446	12.8	160
Graduate school	8.5	120	5.3	66
Grad. school other field	23.4	329	51.6	647
Seeking employment	1.3	18	2.6	33

* See note on table 1

** See note on table 1

Table #12a Median Starting Salary
By Employer Classification

	<u>Certified</u>		<u>Non-certified</u>	
	%	Median	%	Median
Overall		\$9400		\$8500
Industry	79.7	9600	61.7	9400
College/university	4.6	7500	6.1	7100
High school/other	1.3	7200	15.6	8000
Federal government	3.3	7700	3.3	7700
State/local government	3.3	7900	3.9	7900
Hospital/independent lab.	5.9	8000	8.9	8000
Non-profit organization	2.0	7900	-	na
Other	-	na	0.6	na

AMERICAN CHEMICAL SOCIETY

Starting Salary and Employment Status of 1973 Chemistry and Chemical Engineering Graduates

1. Sex: (1) Male (2) Female 2-3. Year of birth _____
4. Place of birth: (1) U.S. (2) Non-U.S. 5. Citizenship: (1) U.S. (2) Non-U.S.
6. Highest degree received in 1973: (1) Bachelors (2) Masters (3) Doctors
7. Field of degree: (1) Chemistry (2) Chemical Engineering (3) Other (specify) _____
8. Major specialty (graduate degree in chemistry only):
- | | |
|--|--|
| (1) <input type="checkbox"/> Analytical | (5) <input type="checkbox"/> Organic |
| (2) <input type="checkbox"/> Biochemistry/Clinical/Medicinal | (6) <input type="checkbox"/> Physical |
| (3) <input type="checkbox"/> Inorganic | (7) <input type="checkbox"/> Polymer |
| (4) <input type="checkbox"/> Literature | (8) <input type="checkbox"/> Other (specify) _____ |

9. Are you a member of any of the minority groups listed below? (1) Yes (2) No
10. If yes, please check those which apply to you:

- | | |
|--|--|
| (1) <input type="checkbox"/> Black/Negro | (3) <input type="checkbox"/> Oriental |
| (2) <input type="checkbox"/> American Indian | (4) <input type="checkbox"/> Spanish Surnamed American (defined by EEO to include persons of Mexican, Puerto Rican, Cuban or Spanish origin) |

Check the appropriate categories if, following graduation, you:

11. (1) Accepted a full-time professional position in a field of chemistry.
 (2) Accepted part-time or summer employment.
 (3) Accepted employment outside the field of chemistry or chemical engineering.
 (4) Were unable to obtain employment.
 (5) Were unemployed not seeking employment.
12. (1) Accepted a postdoctoral, graduate assistant position or other fellowship in a chemical field.
 (2) Otherwise plan further advanced chemical studies in fall, 1973.
 (3) Plan further advanced studies in another field in fall, 1973.
 (4) Entered military service, Peace Corps, VISTA, PHS, etc.
13. If you plan further advanced studies in another field in fall, 1973, specify field:
- | | |
|--|---|
| (1) <input type="checkbox"/> Medicine | (5) <input type="checkbox"/> Business administration |
| (2) <input type="checkbox"/> Dentistry | (6) <input type="checkbox"/> Other physical science |
| (3) <input type="checkbox"/> Pharmacy | (7) <input type="checkbox"/> Other biological science |
| (4) <input type="checkbox"/> Law | (8) <input type="checkbox"/> Other (specify) _____ |

14-18. Starting salary (only if you accepted a full-time job in chemistry): \$ _____ per year.

19-23. Graduate stipend or fellowship: \$ _____ per year.

24. Technical work experience prior to graduation: (1) <52 weeks (2) ≥52 weeks

Employer classification (check the one category which best describes your employer's principal activity):

25. INDUSTRY

- | | |
|--|---|
| (a) <input type="checkbox"/> Aerospace/aeronautics | (1) <input type="checkbox"/> Metals |
| (b) <input type="checkbox"/> Agricultural chemicals | (m) <input type="checkbox"/> Nuclear energy and allied fields |
| (c) <input type="checkbox"/> Automotive | (n) <input type="checkbox"/> Paints, coatings, dyes, inks, pigments |
| (d) <input type="checkbox"/> Cosmetics, detergents, toiletries | (c) <input type="checkbox"/> Paper, pulp, and wood products |
| (e) <input type="checkbox"/> Electronics, electrical equipment | (p) <input type="checkbox"/> Petroleum |
| (f) <input type="checkbox"/> Engineering design/construction | (q) <input type="checkbox"/> Pharmaceutical |
| (g) <input type="checkbox"/> Environmental services | (r) <input type="checkbox"/> Photographic, copying |
| (h) <input type="checkbox"/> Food products and processing | (s) <input type="checkbox"/> Plastics, synthetic resins |
| (i) <input type="checkbox"/> Glass, ceramics, cement, clay products | (t) <input type="checkbox"/> Rubber |
| (j) <input type="checkbox"/> Industrial chemicals and intermediates | (u) <input type="checkbox"/> Textiles, synthetic fibers |
| (k) <input type="checkbox"/> Laboratory equipment, instruments, supplies | (v) <input type="checkbox"/> Other (specify) _____ |

26. NON-INDUSTRY

- | | |
|--|---|
| (1) <input type="checkbox"/> College or university | (5) <input type="checkbox"/> Self employed |
| (2) <input type="checkbox"/> High school or other school | (6) <input type="checkbox"/> Hospital, independent laboratory |
| (3) <input type="checkbox"/> Federal government | (7) <input type="checkbox"/> Non-profit organization |
| (4) <input type="checkbox"/> State or local government | (8) <input type="checkbox"/> Other (specify) _____ |

Geographic location of employment: 27-28. State _____ 29-33. Zip Code _____

Please return within 10 days to the American Chemical Society

AMERICAN CHEMICAL SOCIETY
1155 SIXTEENTH STREET, N.W.
WASHINGTON, D.C. 20036

PRINTED MATTER