

## APPENDIX D

### Fellowship Programs

*Distribution of NSF Fellowships by State of Residence for the Academic Year  
1956-1957*

NORTHEAST			NORTH CENTRAL		
<i>Region and State</i>	<i>Applications received</i>	<i>Awards made</i>	<i>Region and State</i>	<i>Applications received</i>	<i>Awards made</i>
Connecticut . . . . .	67	22	Illinois . . . . .	265	73
Maine . . . . .	18	3	Indiana . . . . .	80	21
Massachusetts . . . . .	205	43	Iowa . . . . .	41	14
New Hampshire . . . . .	14	6	Kansas . . . . .	47	9
New Jersey . . . . .	163	42	Michigan . . . . .	120	31
New York . . . . .	598	141	Minnesota . . . . .	79	22
Pennsylvania . . . . .	258	74	Missouri . . . . .	66	20
Rhode Island . . . . .	29	5	Nebraska . . . . .	26	8
Vermont . . . . .	7	1	North Dakota . . . . .	11	1
			Ohio . . . . .	133	38
			South Dakota . . . . .	20	5
			Wisconsin . . . . .	67	23
SOUTH			WEST		
Alabama . . . . .	27	7	Arizona . . . . .	12	3
Arkansas . . . . .	31	10	California . . . . .	346	125
Delaware . . . . .	11	2	Colorado . . . . .	29	7
District of Columbia . . . . .	23	5	Idaho . . . . .	8	2
Florida . . . . .	53	11	Montana . . . . .	12	3
Georgia . . . . .	22	4	Nevada . . . . .	3	0
Kentucky . . . . .	26	6	New Mexico . . . . .	10	1
Louisiana . . . . .	38	4	Oregon . . . . .	45	14
Maryland . . . . .	90	19	Utah . . . . .	32	5
Mississippi . . . . .	15	4	Washington . . . . .	75	25
North Carolina . . . . .	59	13	Wyoming . . . . .	12	4
Oklahoma . . . . .	45	10			
South Carolina . . . . .	25	2	POSSESSIONS		
Tennessee . . . . .	34	5	Alaska . . . . .	1	0
Texas . . . . .	79	17	Hawaii . . . . .	13	2
Virginia . . . . .	51	12	Puerto Rico . . . . .	3	0
West Virginia . . . . .	9	1	Others . . . . .	6	0

*Distribution of NSF Fellowship Awards by Year of Study and Field  
Academic Year 1956-57*

Field	Predoctoral			Post-doctoral (regular)	Senior post-doctoral	Total
	First year	Intermediate	Terminal year			
Life sciences.....	62	82	50	37	28	259
Chemistry.....	51	74	57	22	7	211
Engineering.....	60	31	18	3	1	113
Earth sciences.....	14	17	9	5	3	48
Mathematics.....	32	24	11	16	4	87
Physics and astronomy.....	74	70	28	12	9	193
Convergent fields.....	3	4	4	3	0	14
Totals.....	296	302	177	98 <sup>1</sup>	52	925

<sup>1</sup> Includes 18 awards made in October 1955.

*Names, Residences, and Fields of Study of Individuals Awarded National  
Science Foundation Fellowships for Fiscal Year 1956*

ALABAMA

*Predoctoral*

CHASTAIN, BENJAMIN B., Birmingham, Chemistry.  
DISMUKES, JOHN P., Montgomery, Chemistry.  
KNIGHT, JAMES M., Mobile, Physics.  
LAMPKIN, JULIA M., Tuscaloosa, Medical Sciences.  
RHODES, WILLIAM C., Anniston, Biochemistry.  
STEINBERG, CHARLES M., Montgomery, Biophysics.

*Senior Postdoctoral*

BROWN, RUSSELL W., Tuskegee Institute, Microbiology.

ARIZONA

*Predoctoral*

BALL, JAMES S., Tempe, Physics.  
COOPER, CHARLES F., Tucson, Botany.  
JUSTICE, KEITH E., Tucson, Zoology.

ARKANSAS

*Predoctoral*

ASKEY, RICHARD A., Little Rock, Mathematics.  
CARRUTH, GEORGE A., Charleston, Agriculture.  
EVERETT, WAYNE W., Benton, Biochemistry.  
LEMING, HOWELL E., Fayetteville, Chemistry.  
PRICKETT, ROBERT J., Pine Bluff, Engineering.  
RODGERS, TOMMY A., Hot Springs, Chemistry.  
SPRAGINS, JOHN D., Jr.,<sup>1</sup> Batesville, Engineering.  
STALLINGS, JOHN R., Morrilton, Mathematics.  
WASSON, JOHN T., Springtown, Chemistry.  
WILLIS, WILLIAM J., Fort Smith, Physics.

<sup>1</sup> Declined.

## CALIFORNIA

*Predoctoral*

- ADAMS, PHILLIP A., Los Angeles, Zoology.  
 ANDELIN, JOHN P., Jr.,<sup>1</sup> Los Angeles, Physics.  
 APPLEQUIST, JON B., Berkeley, Chemistry.  
 AZAR, LEONARD, Redondo Beach, Engineering.  
 BAKER, GEORGE A., Jr., Davis, Physics.  
 BARTON, PATRICIA ANNE, Alhambra, Microbiology.  
 BASS, HYMAN, Los Angeles, Mathematics.  
 BERKSON, EARL R., Los Angeles, Mathematics.  
 BERTANI, L. ELIZABETH, Pasadena, Microbiology.  
 BLAIR, PHYLLIS B., Berkeley, Genetics.  
 BOSWELL, GEORGE A., Oakland, Chemistry.  
 BOTTINI, ALBERT T., Petaluma, Chemistry.  
 BRANDT-ERICHSEN, JEAN, Solvang, Zoology.  
 BREDON, GLEN E., Sanger, Mathematics.  
 BRIDGES, WILLIAM B.,<sup>1</sup> Inglewood, Engineering.  
 BROKAW, CHARLES J., El Segundo, Zoology.  
 BROWN, LOWELL S., Visalia, Physics.  
 BYRON, STANLEY R., San Mateo, Engineering.  
 CARPENTER, WAYNE R., Claremont, Chemistry.  
 CHER, MARK, Los Angeles, Chemistry.  
 CHINN, JAMES, Berkeley, Engineering.  
 CIMA, RICHARD M., Orosi, Engineering.  
 COLBY, THOMAS H., San Leandro, Chemistry.  
 CONDON, PAUL E., Berkeley, Physics.  
 CRANSTON, MARGARET B., Altadena, Zoology.  
 CURL, ROBERT F., Jr., Berkeley, Chemistry.  
 DAYBELL, MELVIN D., Oceanside, Physics.  
 DE NEVERS, NOEL H., San Francisco, Engineering.  
 DEWHIRST, KENNETH C., Tracy, Chemistry.  
 DICKINSON, WILLIAM R., Menlo Park, Earth Sciences.  
 DONOVAN, PAUL F., Berkeley, Chemistry.  
 ELLIS, WALTON P.,<sup>1</sup> Whittier, Chemistry.  
 ELSESSER, ERIC,<sup>1</sup> Palo Alto, Engineering.  
 EZRA, ARTHUR A., Menlo Park, Engineering.  
 FIELD, GEORGE F., Linden, Chemistry.  
 FONG, PAUL, San Francisco, Mathematics.  
 FRAZER, WILLIAM R., Orinda, Physics.  
 FUCHS, RONALD, Altadena, Physics.  
 GLASS, LAUREL E., Fresno, Zoology.  
 GRAY, JULIET M., Stanford, Psychology.  
 HALL, HAROLD R., Oildale, Engineering.  
 HAMILTON, WILLIAM F., Altadena, Physics.  
 HANNA, MELVIN W., Van Nuys, Chemistry.  
 HARRIS, ROBERT E., Berkeley, Chemistry.  
 HERSCHBACH, DUDLEY R.,<sup>1</sup> Saratoga, Physics.  
 HOMMERSAND, MAX H., La Mesa, Botany.  
 HUANG, LUC, Oakland, Physics.  
 HULTGREN, NEILEN W., Berkeley, Chemistry.  
 KOCH, ELIZABETH A., Santa Monica, Microbiology.  
 LANGENBERG, DONALD N., Berkeley, Physics.  
 LAZARUS, ALAN J., San Francisco, Physics.  
 LEVIN, ROBERT E.,<sup>1</sup> Santa Ana, Engineering.  
 LITTLE, JOHN C., Stockton, Chemistry.  
 MACIEL, GARY E., Livermore, Chemistry.  
 MACMILLAN, ARCHIE J., Los Angeles, Engineering.  
 MATHEWS, JON, Sierra Madre, Physics.  
 MAYFIELD, IVAN JEANNE, Chino, Zoology.  
 MCCUEN, PETER A., Bakersfield, Engineering.  
 MESELSON, MATTHEW S., Los Angeles, Chemistry.  
 NORRIS THOMAS G., Los Angeles, Engineering.  
 OLIVIER, KENNETH L., Los Angeles, Chemistry.  
 ORBACH, RAYMOND L., Los Angeles, Physics.  
 ORVILLE, PHILIP M., Santa Monica, Earth Sciences.  
 PARKER, BARBARA A., Los Angeles, Chemistry.  
 QUON, JIMMIE E., Berkeley, Engineering.  
 REEVES, ROBERT B., Whittier, Medical Sciences.

<sup>1</sup> Declined.

- RICHARDS, L. WILLARD**, Riverside, Chemistry.
- RICHARDS, PAUL L.**, Riverside, Physics.
- ROBERTSON, BALDWIN**, Los Angeles, Engineering.
- ROSENBLATT, RICHARD H.**, Los Angeles, Zoology.
- SASS, RONALD L.**, Los Angeles, Chemistry.
- SCOTT, DANA S.**<sup>1</sup> Corte Madera, Mathematics.
- SEDERHOLM, CHARLES H.**, Concord, Chemistry.
- SHIRLEY, DAVID A.**, Berkeley, Chemistry.
- SHREVE, RONALD L.**, Bishop, Earth Sciences.
- SNOW, SIDNEY R.**, North Hollywood, Genetics.
- SORENSEN, JOHN L.**, Los Angeles, Anthropology.
- STONE, JOHN G. II**, Stanford, Earth Sciences.
- STROMBOTNE, RICHARD L.**, Berkeley, Physics.
- SUTTON, DONALD D.**, Bakersfield, Microbiology.
- SYVERTSON, CLARENCE A.**<sup>1</sup> Menlo Park, Engineering.
- TAYLOR, HUGH P., Jr.**, Los Angeles, Earth Sciences.
- THOMASIAN, ARAM J.**, Berkeley, Mathematics.
- TINDERHOLT, VICTOR E.**, Los Angeles, Genetics.
- SCHMIDT, ROBERTA M. U.**, San Francisco, Zoology.
- WEDDLE, ORVILLE H.**, Granada Hills, Medical Sciences.
- WEITZNER, HAROLD**, San Francisco, Physics.
- WEYMANN, RAY J.**, Los Angeles, Astronomy.
- WILCOX, WILLIAM R.**<sup>1</sup> Torrance, Engineering.
- WILLIAMS, FORMAN A.**, Pasadena, Engineering.
- WILLIS, JOHN S.**, Pasadena, Zoology.
- WILSON, DAVID J.**, Stanford, Chemistry.
- WILSON, GARTH H.**, Oakland, Engineering.
- WILSON, JAMES F.**, Palo Alto, Microbiology.
- WOODS, WILLIAM G.**, Los Angeles, Chemistry.
- WOYCHESHIN, ELIAS A.**, Sacramento, Chemistry.
- Postdoctoral*
- BOVELL, CARLTON ROWLAND**, Davis, Microbiology.
- CHAMBERS, KENTON L.**<sup>1</sup> Atascadero, Botany.
- COX, CHARLES S.**, Del Mar, Earth Sciences.
- HARRIS, BRUNO**, Arcadia, Mathematics.
- HESTER, JOSEPH AARON, Jr.**, Los Angeles, Anthropology.
- HIRSCH, JEROME E.**<sup>1</sup> Berkeley, Psychology.
- JENSEN, WILLIAM AUGUST**, Pasadena, Botany.
- MITCHELL, ALBERT H.**<sup>1</sup> Berkeley, Physics.
- REID, WILLIAM H.**, Oakland, Mathematics.
- RIDDELL, DOROTHY MENZEL**, Berkeley, Anthropology.
- SCHUMAKER, VERNE N.**<sup>1</sup> Berkeley, Biophysics.
- SHERBY, OLEG DIMITRI**, Albany, Engineering.
- THOMPSON, GEORGE A.**, Palo Alto, Earth Sciences.
- THORSON, WALTER R.**, Los Angeles, Chemistry.
- TODD, DAVID K.**, Berkeley, Engineering.
- Senior Postdoctoral*
- ALFERT, MAX**<sup>1</sup> Berkeley, Zoology.
- BASSHAM, JAMES A.**, Berkeley, Biochemistry.
- BERN, HOWARD A.**<sup>1</sup> Berkeley, Medical Sciences.
- EAKIN, RICHARD M.**, Berkeley, Zoology.
- GIFFORD, ERNEST M., Jr.**, Davis, Botany.
- HYMAN, CHESTER**, Los Angeles, Medical Sciences.
- MARG, ELWIN**, Berkeley, Psychology.
- REDHEFFER, RAYMOND M.**, Los Angeles, Mathematics.
- REYNOLDS, DONALD M.**, Davis, Microbiology.
- SAUNDERS, PAUL R.**, S. Pasadena, Medical Sciences.
- SEKERA, ZDENEK**, Los Angeles, Earth Sciences.
- STENT, GUNTHER S.**<sup>1</sup> Berkeley, Biophysics.

<sup>1</sup> Declined.

STERLING, CLARENCE,<sup>1</sup> Davis, Biophysics.  
THOMPSON, GEORGE A.,<sup>1</sup> Palo Alto, Earth  
Sciences.

COLORADO

*Predoctoral*

BLANPIED, WILLIAM A., Denver, Physics.  
DUDLEY, PATRICIA L., Colorado Springs,  
Zoology.  
KELLOGG, HAROLD E., Arvada, Earth  
Sciences.  
MINNER, DE LEE F., Denver, Mathe-  
matics.  
NAZY, JOHN R., Denver, Chemistry.  
SCHLAGER, GUNTHER, Denver, Zoology.

*Postdoctoral*

SCHULZ, ARTHUR R., Fort Collins, Bio-  
chemistry.

CONNECTICUT

*Predoctoral*

AVERELL, JOHN P., Darien, Physics.  
CHURCHILL, LINDSEY C., Jr., Meriden,  
Mathematical Sociology.  
DRANOFF, JOSHUA S., Bridgeport,  
Engineering.  
GILBERT, WALTER, Westport, Physics.  
GOLDSTEIN, MELVIN J., New Haven,  
Chemistry.  
KELLEY, JOSEPH G., Thomaston, Physics.  
KOHN, ALAN J., Hamden, Zoology.  
MEIGS, ROBERT A., Newington,  
Biochemistry.  
MERMIN, N. DAVID, New Haven, Physics.  
POTTER, MARY C., Branford, Psychology.  
SANTER, URSULA V., New Haven,  
Microbiology.  
SCOVILLE, RICHARD A., Torrington,  
Mathematics.  
STEVENSON, KENNETH K., Berlin,  
Chemistry.  
TABOR, WILLIAM J., Rockfall, Chemistry.  
TIFFT, WILLIAM G., Seymour, Astronomy.

*Postdoctoral*

AMATRUDA, THOMAS T., Jr.,<sup>1</sup> New  
Haven, Medical Sciences.

GOULIAN, DICRAN, Jr., New Haven, Medi-  
cal Sciences.

POTTER, DAVID D., Branford, Zoology.  
STURTEVANT, WILLIAM C.,<sup>1</sup> New Haven,  
Anthropology.  
TABORSKY, GEORGE,<sup>1</sup> New Haven, Bio-  
chemistry.  
WILCOX, CHARLES F., Jr., Cos Cob,  
Chemistry.

*Senior Postdoctoral*

MACLEAN, PAUL D., Hamden, Medical  
Sciences.

DELAWARE

*Predoctoral*

ANDERSON, HOWARD W., Wilmington,  
Engineering.  
HARWITZ, MITCHELL, Wilmington, Math-  
ematical Economics.

DISTRICT OF COLUMBIA

*Predoctoral*

GOLDBERG, KARL, Washington, Mathe-  
matics.  
HOFFELD, DONALD R., Washington,  
Psychology.  
HOOKER, WILLIAM W., Washington,  
Mathematics.  
SEARS, RICHARD L., Washington, As-  
tronomy.

*Senior Postdoctoral*

MANDEL, H. GEORGE,<sup>1</sup> Washington,  
Medical Sciences.

FLORIDA

*Predoctoral*

BENTLEY, F. EDWARD, Gainesville,  
Chemistry.  
BLESS, ROBERT C., Gainesville, Astron-  
omy.  
BROOKS, RODNEY A., Miami, Physics.  
BROWN, MORTON, Palm Beach, Chemistry.  
IRWIN, CAROL ANN, Jacksonville, An-  
thropology.  
MORRILL, JOHN B., Jr., Tallahassee,  
Zoology.

<sup>1</sup> Declined.

- PILGER, RICHARD C., Jr., West Palm Beach, Chemistry.
- WADSWORTH, DONALD VAN Z., Coral Gables, Earth Sciences.
- WOOD, JOHN A., Jr., Jacksonville, Earth Sciences.
- Postdoctoral*
- MILLON, RENE F., Hialeah, Anthropology.
- TOLLIN, GORDON, Tallahassee, Biochemistry.
- GEORGIA
- Predoctoral*
- DUNLAP, JULIAN L., La Grange, Physics.
- HART, HOWARD R., Jr., Rome, Physics.
- SMITH, THOMAS G., Jr.,<sup>1</sup> La Grange, Zoology.
- Postdoctoral*
- FRY, BILLY E., Clarkesville, Zoology.
- Senior Postdoctoral*
- MILLER, JAMES A., JR., Atlanta, Zoology.
- IDAHO
- Predoctoral*
- MERRILL, JOHN J.,<sup>1</sup> Twin Falls, Physics.
- REMSBERG, LOUIS P., Jr., Caldwell, Chemistry.
- ILLINOIS
- Predoctoral*
- APPELMAN, EVAN H., Chicago, Chemistry.
- BACKUS, GEORGE E., Riverdale, Physics.
- BARON, ROBERT E., Chicago, Physics.
- BJORKEN, JAMES D., Park Ridge, Physics.
- BREWER, RICHARD D., Murphysboro, Zoology.
- BUTLER, DONALD C., Chicago, Psychology.
- CARLOCK, JOHN, R., Bloomington, Zoology.
- COHEN, PAUL J., Chicago, Mathematics.
- DEWEY, RAY S., Chicago, Chemistry.
- DRAKE, FRANK D.,<sup>1</sup> Chicago, Astronomy.
- DRAKE, JOHN W., Wilmette, Microbiology.
- EDWARDS, HAROLD M., Jr., Champaign, Mathematics.
- ENRIETTO, JOSEPH F.,<sup>1</sup> Champaign, Engineering.
- ERLEBACHER, ALBERT, Chicago, Psychology.
- FAHRENHOLTZ, KENNETH E., Peoria, Chemistry.
- FILSON, DON P., Chicago, Chemistry.
- GELLER, DAVID M., Oak Park, Biochemistry.
- GINSBERG, DONALD M., Chicago, Physics.
- GOSTKIEWICZ, ROMAN J., Chicago, Physics.
- HALFORD, DONALD W., Metamora, Chemistry.
- HARRIS, SAMUEL M., Chicago, Physics.
- HARTZELL, GORDON E., Urbana, Chemistry.
- HARTZLER, HARRIS D., Chicago, Chemistry.
- HENRY, RICHARD W., Urbana, Physics.
- HILL, ROBERT N., Evanston, Physics.
- JAMES, PHILIP N., Champaign, Chemistry.
- JOSEPH, DAVID W., Wheaton, Physics.
- KAISER, THOMAS E., Chicago, Chemistry.
- KLEIN, MILES V., Highland Park, Physics.
- KNIGHT, FRANK B., Chicago, Mathematics.
- LANDAUER, THOMAS K., Highland Park, Anthropology.
- LE NOBLE, WILLIAM J., Chicago, Chemistry.
- LLOYD, RONALD M., Oak Park, Earth Sciences.
- MAC RAE, ROBERT E., Chicago, Mathematics.
- MASSEY, JAMES L.,<sup>1</sup> Ottawa, Engineering.
- MATTESON, DONALD S., Champaign, Chemistry.
- MC MICHAEL, KIRK D., Ingleside, Chemistry.
- PARKER, EVELYN D., Galesburg, Biochemistry.
- QUAY, PAUL M., S. J., Oak Park, Physics.
- REINMUTH, WILLIAM H., Chicago, Chemistry.

<sup>1</sup> Declined.

RESING, HENRY A., Chicago, Chemistry.  
 REYNOLDS, JOHN C., Glen Ellyn, Physics.  
 RICHEY, HERMAN G., Chicago, Chemistry.  
 ROMANO, RICHARD C., Chicago, Engineering.  
 RYBICKI, GEORGE B., Chicago, Physics.  
 SAGERS, RICHARD D., Champaign, Microbiology.  
 SAVITT, DONALD A.,<sup>1</sup> Chicago, Engineering.  
 SHORES MAN, PETER B.,<sup>1</sup> Winnetka, Genetics.  
 SMITH, KATHERINE A., Hinsdale, Psychology.  
 SPEER, DONALD A., Morton Grove, Chemistry.  
 STUDTMANN, GEORGE H., Jr., Chicago, Engineering.  
 SWANSON, ROBERT A., Chicago, Physics.  
 WALLMAN, EDWIN J., Jr., Chicago, Engineering.  
 WENTZEL, DONAT G., Chicago, Physics.  
 WHITE, JAMES S.,<sup>1</sup> Hillside, Engineering.  
 WHITESIDE, ARLISS E., Joliet, Engineering.  
 WOLF, JOSEPH A., Chicago, Mathematics.  
 WOOD, JOSEPH M., Chicago, Botany.  
 ZIMMERMAN, STEVEN B., Chicago, Biochemistry.

*Postdoctoral*

DICKERSON, RICHARD E., Charleston, Chemistry.  
 FANTA, PAUL E., Chicago, Chemistry.  
 KENDE, ANDREW S.,<sup>1</sup> Evanston, Chemistry.  
 LAW, JOHN H., Jr., Park Forest, Biochemistry.  
 LIEHR, ANDREW DAVIS, Chicago, Chemistry.  
 NELSON, PHILLIP G., Chicago, Medical Sciences.  
 PENNER, SAMUEL, Champaign, Physics.  
 SCHULTZ, THEODORE DAVID, Glencoe, Physics.  
 STEJSKAL, EDWARD O., Berwyn, Chemistry.

*Senior Postdoctoral*

BATEMAN, PAUL T., Urbana, Mathematics.

DAY, MAHLON M., Urbana, Mathematics.  
 KORST, HELMUT H., Champaign, Engineering.  
 SCHUBERT, JACK, Villa Park, Biochemistry.  
 SIEVER, RAYMOND, Urbana, Earth Sciences.

## INDIANA

*Predoctoral*

CHESICK, JOHN POLK, New Castle, Chemistry.  
 CLARKE, FRANK R., Bloomington, Psychology.  
 CZANDERNA, ALVIN W., West Lafayette, Chemistry.  
 DAVIS, ROBERT E., Valparaiso, Chemistry.  
 DODD, JAMES R., Bloomington, Earth Sciences.  
 FRANKMANN, RAYMOND W., Jr., Bloomington, Psychology of Learning.  
 HARRISON, JACK L., Granger, Earth Sciences.  
 LONG, LEON E., Gary, Chemistry.  
 LORDAN, WILLIAM C., Gary, Mathematics.  
 MEDITCH, JAMES S., Indianapolis, Engineering.  
 PETERS, DONALD L., Chesterton, Engineering.  
 RAY, CLAYTON E., Indianapolis, Earth Sciences.  
 SHEPHERD, WILLIAM D., Gary, Physics.  
 SHIELDS, JAMES E., Marion, Biochemistry.  
 SHONLE, JOHN I., Indianapolis, Physics.  
 STILLER, MARY L., Connersville, Botany.  
 WILT, FRED H., Nappanee, Zoology.  
 ZIMMERMAN, JAMES R., Anderson, Zoology.

*Postdoctoral*

HARRIS, JOSEPH DAVID, Lafayette, Physics.  
 NELSON, J. EDWARD, Gary, Mathematics.  
 OSTER, IRWIN ISAAC, Bloomington, Genetics.

## IOWA

*Predoctoral*

BAKER, BILLY R., Iowa City, Engineering.  
 ENGLER, JEAN A., Mason City, Psychology.

<sup>1</sup> Declined.

FELLOWS, LARRY D., Shenandoah, Earth Sciences.

GARST, JOHN F., Ames, Chemistry.

GESKE, DAVID H., Atalissa, Chemistry.

KERR, NORMAN S., Charles City, Microbiology.

LATHROP, JOHN F., Cedar Rapids, Physics.

RENEKER, DARRELL H., Birmingham, Physics.

SMITH, CHARLES V., Des Moines, Engineering.

WILBOIS, ANNETTE D., Des Moines, Genetics.

WOOLDRIDGE, CHARLES E., Mason City, Engineering.

*Postdoctoral*

ROZEBOOM, WILLIAM W., Ottumwa, Philosophy of Science.

*Senior Postdoctoral*

HAMMOND, GEORGE S., Ames, Chemistry.

NELSON, EDWARD B., Iowa City, Physics.

KANSAS

*Predocctoral*

BAKIS, RAIMO, Sterling, Physics.

EHRlich, PAUL R., Lawrence, Zoology.

ENOS, PAUL P.,<sup>1</sup> Perry, Earth Sciences.

HETHERINGTON, JACK H., Wichita, Physics.

LUNDEEN, ALLAN J., Fowler, Chemistry.

NEWBY, FRANK A., Jr., Columbus, Chemistry.

ROGERS, GARY B., Manhattan, Engineering.

SOMMER, WARREN T., Manhattan, Physics.

YANG, JOHN Y., Eudora, Chemistry.

KENTUCKY

*Predocctoral*

CANTRILL, JAMES E., Lexington, Chemistry.

LEWIS, RUSSELL J., Liberty Road, Agriculture.

RAGLAND, JOHN L., Beaver Dam, Agriculture.

VANDENBOSCH, ROBERT, Lexington, Chemistry.

*Postdoctoral*

GILBERT, J. FREEMAN, Jr., Lawrenceburg, Earth Sciences.

LOUISIANA

*Predocctoral*

BATTAILE, JULIAN, Locombe, Biochemistry.

HOWE, HERBERT J., Baton Rouge, Earth Sciences.

LEMMON, WILLIAM W., New Orleans, Mathematics.

SCHOTT, EDWARD W., S. J., New Orleans, Biochemistry.

MAINE

*Predocctoral*

BERKELMAN, KARL, Lewiston, Physics.

COMMERFORD, SPENCER L., Belfast, Biochemistry.

SILVER, IRVING R., Portland, History of Science.

MARYLAND

*Predocctoral*

EVANS, DAVID R., Baltimore, Zoology.

FLETCHER, JOHN G., Chevy Chase, Physics.

GOLDSMITH, MARY H., College Park, Zoology.

GOLDSMITH, TIMOTHY H.,<sup>1</sup> College Park, Zoology.

HEARN, B. CARTER, Jr., Baltimore, Earth Sciences.

HOPFIELD, JOHN J., Bethesda, Physics.

KAUFMANN, JOHN H., Towson, General Biology.

McALLISTER, JOSEPH P., Cambridge, Mathematics.

REESE, WILLIAM D., Owings Mills, Botany.

ROTBERG, IRIS C., Baltimore, Psychology.

TAEUBER, KARL E., Hyattsville, Demography.

THOMAS, T. DARRAH, Chevy Chase, Chemistry.

WHITAKER, STEPHEN, Elkton, Engineering.

WILLIS, EDWIN O., Baltimore, Zoology.

<sup>1</sup> Declined.



*Postdoctoral*

- BRODY, ELMER J., Chevy Chase, Mathematics.  
 DYER, ELDON, Baltimore, Mathematics.  
 KAO, RICHARD C.,<sup>1</sup> Woodbine, Statistical Design.  
 SPENCER, GUILFORD L., II, College Park, Mathematics.

*Senior Postdoctoral*

- GREENBERG, JOSEPH, Bethesda, Medical Sciences.

## MASSACHUSETTS

*Predocctoral*

- ARONSON, ARTHUR I., Newton, Microbiology.  
 AYOUB, MILLIGENT R., Cambridge, Anthropology.  
 BARR, R. MACDONALD, Cambridge, Engineering.  
 BAYM, GORDON A., Pittsfield, Physics.  
 BLUM, RALPH, Cambridge, Anthropology.  
 BRILLIANT, MARTIN B., Boston, Engineering.  
 CARY, HELEN E., North Amherst, Chemistry.  
 CULVAHOUSE, JACKIE W., Cambridge, Physics.  
 CURRY, GEORGE M., Groton, Botany.  
 DANIELS, GERALD M., Roxbury, Physics.  
 DAVIS, ROBERT J.,<sup>1</sup> Arlington, Astronomy.  
 EIGNER, JOSEPH, Swampscott, Chemistry.  
 EVENS, LEONARD, Brookline, Mathematics.  
 FARNHAM, ANN E., Boston, Microbiology.  
 FESSENDEN, RICHARD W., North Amherst, Chemistry.  
 FISHMAN, FRANK J., Jr., Somerville, Physics.  
 GOSSARD, ARTHUR C., Quincy, Physics.  
 HOHENBERG, PIERRE C.,<sup>1</sup> Cambridge, Physics.  
 JENNESS, JONATHAN, Cambridge, Anthropology.  
 LA TOURETTE, JAMES T., Cambridge, Physics.  
 LEON, BENJAMIN J., Cambridge, Engineering.  
 LINDQUIST, RICHARD W., Worcester, Physics.  
 MILLER, FRANK C., Boston, Anthropology.

- MUCKENHOUP, BENJAMIN, Newton Highlands, Mathematics.  
 OFENGAND, EDWARD J., Taunton, Microbiology.  
 PANAGOS, SYLVIA S., Lynn, Medical Sciences.  
 PARLOW, ALBERT F., Everett, Zoology.  
 RAUP, DAVID M., Petersham, Earth Sciences.  
 SCHAFER, BERTRAM J.,<sup>1</sup> Cambridge, History of Science.  
 SHEPARD, SUSAN C.,<sup>1</sup> West Falmouth, Earth Sciences.  
 TUGENDHAT, BEATRICE, Webster, Psychology.  
 WHITE, R. WINSLOW, Somerville, Chemistry.  
 WILSON, KENNETH G., Concord, Physics.

*Postdoctoral*

- ALLEN, DAVID W., Boston, Medical Sciences.  
 EMMERLING, MARGARET H., Leominster, Genetics.  
 MILKMAN, ROGER D., Cambridge, Genetics.  
 NEISSER, ULRIC, Cambridge, Psychology.  
 ROBBINS, PHILLIPS W.,<sup>1</sup> Leominster, Biochemistry.  
 TREFETHEN, LLOYD M., Lexington, Engineering.

*Senior Postdoctoral*

- EYGES, LEONARD J., Belmont, Physics.  
 FISKE, VIRGINIA MAYO, Sherborn, Zoology.  
 SELOVE, WALTER, Cambridge, Physics.  
 WILSON, E. BRIGHT, Jr., Concord, Chemistry.

## MICHIGAN

*Predocctoral*

- ALLERTON, SAMUEL E., Kalamazoo, Biochemistry.  
 ANGUS, JOHN C., Spring Lake, Chemistry.  
 BOUWSMA, WARD D., Grand Rapids, Mathematics.

<sup>1</sup> Declined.

BRINEY, ROBERT E., Muskegon, Mathematics.  
 CLOSSON, WILLIAM D.,<sup>1</sup> Remus, Chemistry.  
 DOW, DANIEL G.,<sup>1</sup> Ann Arbor, Engineering.  
 GERBER, CARL J., Detroit, Medical Science.  
 GRAESSLEY, WILLIAM W., Ann Arbor, Engineering.  
 GREEN, DAVID M., Tecumseh, Psychology.  
 HAZARD, EVAN B., Pinckney, Zoology.  
 HEIN, GEORGE E., Ann Arbor, Chemistry.  
 MACK, LAWRENCE R.,<sup>1</sup> Plymouth, Engineering.  
 MEYER, WALTER L., Ann Arbor, Chemistry.  
 MOORE, PHYLIS T., Detroit, Chemistry.  
 NELSON, FREDERIC F., Grand Rapids, Chemistry.  
 NICHOLS, WILLIAM H., Detroit, Physics.  
 O'CONNELL, RICHARD H., Ann Arbor, Psychology.  
 REIMUS, RICHARD G., Saginaw, Engineering.  
 SHIELDS, PAUL C., South Haven, Mathematics.  
 SHURE, FRED C., Ann Arbor, Physics.  
 SMALL, GEORGE E., Jackson, Engineering.  
 SMITH, HARRY A., Grand Rapids, Chemistry.  
 SPENCER, JOHN L., Ann Arbor, Chemistry.  
 SPITZER, DONALD P., Bridgman, Chemistry.  
 STASHEFF, JAMES D., Ann Arbor, Mathematics.  
 WINDER, ROBERT O., Ann Arbor, Mathematics.  
 YOUNGDALE, GILBERT A., Detroit, Chemistry.

*Postdoctoral*

ADDISON, JOHN W., Jr., Ann Arbor, Mathematics.  
 AUSLANDER, MAURICE, Ann Arbor, Mathematics.  
 BAKAN, PAUL, East Lansing, Psychology.  
 HERRMANN, ROBERT L.,<sup>1</sup> East Lansing, Biochemistry.

## MINNESOTA

*Predocctoral*

ABBOTT, ROSE MARIE H. S., Minneapolis, Botany.  
 ACKERBERG, ROBERT C., Minneapolis, Engineering.  
 AHLQUIST, JOHN B.,<sup>1</sup> Minneapolis, Engineering.  
 EHRHORN, RICHARD W., Rochester, Engineering.  
 ELLASON, MORTON A., Moorhead, Chemistry.  
 ERNST, WALLACE G., Minneapolis, Earth Sciences.  
 FAWCETT, MARK S., Winona, Chemistry.  
 FREDERICK, EDWARD C., Eagle Lake, Agriculture.  
 GIESE, CLAYTON F., Minneapolis, Physics.  
 HOLMES, JOHN C., South St. Paul, Zoology.  
 JUNGAS, ROBERT L., Mountain Lake, Medical Sciences.  
 LARSON, DAVID C., Cloquet, Physics.  
 OSBORN, JAMES H., Winona, Chemistry.  
 PEARSON, JAMES J., Minneapolis, Physics.  
 PIERCE, RICHARD L., Minneapolis, Botany.  
 ROISELAND, DONALD S., South St. Paul, Physics.  
 SCOTT, PAUL C., Minneapolis, Chemistry.  
 SUMPTION, LAVON J., St. Paul, Agriculture.  
 WADE, WARREN F., Minneapolis, Engineering.

*Postdoctoral*

KING, WILLIAM T., St. Paul, Chemistry.  
 ROYCE, PAUL C., Brainerd, Medical Sciences.

*Senior Postdoctoral*

WANNAMAKER, LEWIS W., St. Paul, Microbiology.

## MISSISSIPPI

*Predocctoral*

BROWN, KATHLEEN, Jackson, Chemistry.  
 MANGUM, BILLY W., Mize, Chemistry.  
 RAWDON, W. KENNER, Vicksburg, Mathematics.  
 SCAIFE, NORMAN C., Dundee, Earth Sciences.

<sup>1</sup> Declined.

## MISSOURI

*Predoctoral*

- BALL, WILLIAM E.,<sup>1</sup> St. Louis, Engineering.
- BURLESON, NOEL D., Kansas City, Anthropology.
- DAVIS, ROWLAND H.,<sup>1</sup> University City, Genetics.
- DOWNES, WILLIAM L., Jr., Shrewsbury, Zoology.
- GILLESPIE, ROBERT W., Kansas City, Mathematical Economics.
- GRUEN, LISE, Kansas City, Chemistry.
- HIGGINBOTHAM, HUGH B., Overland, Microbiology.
- KREMER, ELMAR J.,<sup>1</sup> St. Louis, Psychology.
- MEAD, C. ALDEN, Webster Groves, Chemistry.
- MIDDLEY, JAMES E.,<sup>1</sup> Kansas City, Physics.
- MONTGOMERY, DAVID C., Milan, Physics.
- O'CONNOR, RODNEY J., Gordonville, Chemistry.
- OEN, CAROL J., Columbia, Medical Sciences.
- PITTMAN, WILLIAM H., Columbia, Chemistry.
- SCHANUEL, STEPHEN H., Kirkwood, Mathematics.
- WIESMEYER, HERBERT, St. Louis, Microbiology.
- YOUNG, CHARLES W., Kirkwood, Agriculture.

*Postdoctoral*

- CANTWELL, MURRAY, St. Louis, Physics.
- STOUT, GEORGE H., St. Louis, Chemistry.

*Senior Postdoctoral*

- KAMEN, MARTIN D., University City, Biochemistry.

## MONTANA

*Postdoctoral*

- BOOTS, DAVID A., Missoula, Earth Sciences.
- JORGENSEN, DALE W., Helena, Mathematical Economics.
- WESTERMAN, EDWIN J.,<sup>1</sup> Butte, Engineering.

## NEBRASKA

*Predoctoral*

- DOMINGO, JOHN J., Weeping Water, Physics.
- EICHER, DON L., Lincoln, Earth Sciences.
- HAYES, JOHN B., Omaha, Earth Sciences.
- HUPP, EUGENE W., Norfolk, Agriculture.
- MCGARVEY, DAVID C., Omaha, Mathematics.
- SCHELKOPF, RUSSELL L., Geneva, Zoology.
- WRIGHT, CHARLES R. B., Lincoln, Mathematics.

*Postdoctoral*

- COUNCE, SHEILA JEAN, Hayes Center, Genetics.

## NEW HAMPSHIRE

*Predoctoral*

- AYER, DONALD E., Bradford, Chemistry.
- CLARK, RONALD R., Groveton, Engineering.
- FITTS, DONALD D., Keene, Chemistry.
- JOHNSON, FREDERIC A., Concord, Chemistry.
- WOLFENDEN, RICHARD V., Hanover, Medical Sciences.

*Postdoctoral*

- MIRKIL, HAZLETON, Hanover, Mathematics.

## NEW JERSEY

*Predoctoral*

- ANDERSEN, KENNETH K., Fords, Chemistry.
- BALDESCHWIELER, JOHN D., Cranford, Chemistry.
- BLAKER, J. WARREN, Rutherford, Chemistry.
- BREYER, ARTHUR C., East Orange, Chemistry.
- BROWER, JANE V. Z., Chatham, Zoology.
- BROWER, LINCOLN P., Madison, Zoology.
- CASSIDY, WILLIAM A., Roselle Park, Earth Sciences.
- CHRISTENSEN, ROBERT L.,<sup>1</sup> Princeton, Physics.

<sup>1</sup> Declined.

**CIECIUCH, RONALD F. W.**, Jersey City,  
Chemistry.

**CLARK, ALVIN J.**, Morristown, Chemistry.

**COHEN, WILLIAM C.**, Princeton, Engi-  
neering.

**DOEG, KENNETH A.**, Bergenfield, Zool-  
ogy.

**DOLOTTA, THEODORE A.**, Vineland, Engi-  
neering.

**FEDERBUSH, PAUL G.**, Newark, Physics.

**HAND, LOUIS N.**, Summit, Physics.

**HUFNAGEL, ROBERT E.**, Pompton Plains,  
Engineering.

**KING, CARY J., III**,<sup>1</sup> Princeton, Engi-  
neering.

**KLAUDER, JOHN R.**,<sup>1</sup> Morristown, Physics.

**LEMAL, DAVID M.**, Fanwood, Chemistry.

**MANDELBAUM, DAVID M.**, Hillside, Math-  
ematics.

**MILLER, BARRY**, Passaic, Chemistry.

**O'BRIEN, PAUL J.**, Haddonfield, Microbi-  
ology.

**PARE', VICTOR K.**, Woodbury, Physics.

**REINKEN, DONALD L.**, Plainfield, Math-  
ematics.

**ROSEN, GERALD H.**, Teaneck, Physics.

**ROSENFELD, JACK L.**, Long Branch, Engi-  
neering.

**RUSCH, WILLARD V.**, Lambertville, Engi-  
neering.

**SAGAN, CARL E.**, Rahway, Astronomy.

**SWAN, RICHARD G.**, Boonton, Mathe-  
matics.

**VARRIN, ROBERT D.**, Arlington, Earth  
Sciences.

**WARTER, PETER J., Jr.**, Trenton, Engi-  
neering.

**YOUNG, RICHARD W.**,<sup>1</sup> Westwood, Medi-  
cal Sciences.

**ZANET, PAUL M.**, Clifton, Chemistry.

*Postdoctoral*

**AUSLANDER, LOUIS**, Princeton, Mathe-  
matics.

**BASS, ROBERT W.**,<sup>1</sup> Princeton, Mathe-  
matics.

**HOLLAND, HEINRICH D.**, Princeton, Earth  
Sciences.

**TOBOCMAN, WILLIAM**, Princeton, Physics.

**WEINER, IRWIN M.**, New Egypt, Medical  
Sciences.

*Senior Postdoctoral*

**HALBERT, SEYMOUR P.**,<sup>1</sup> Hillsdale, Micro-  
biology.

**JACOBS, WILLIAM P.**, Princeton, Botany.

**WIGHTMAN, ARTHUR S.**, Princeton, Phys-  
ics.

**WILLIAMS, ROGER W.**, Tenafly, Medical  
Sciences.

NEW MEXICO

*Predoctoral*

**MODESITT, GEORGE E.**, Los Alamos,  
Physics.

NEW YORK

*Predoctoral*

**ABRAMSON, LEE R.**, New York, Mathe-  
matics.

**ADELBERG, ARNOLD M.**, Brooklyn, Mathe-  
matics.

**ARMSTRONG, JOHN A.**,<sup>1</sup> Schenectady,  
Physics.

**ASH, ROBERT B.**,<sup>1</sup> Jamaica, Engineering.

**BARD, ALLEN J.**, New York, Chemistry.

**BARRY, THOMAS W.**, Ithaca, Zoology.

**BAUER, VICTOR J.**, White Plains, Chem-  
istry.

**BAUM, LEONARD E.**, Brooklyn, Mathe-  
matics.

**BENNETT, GORDON D.**, Elmira, Earth  
Sciences.

**BERMAN, SIMEON M.**, Brooklyn, Mathe-  
matical Economics.

**BIENENSTOCK, ARTHUR I.**, New York,  
Physics.

**BOWNE, SAMUEL W., Jr.**, Ithaca, Genetics.

**BRANDT, PETER W.**, New York, Engineer-  
ing.

**BUDD, RICHARD**, New York, Physics.

**BUTZ, ARTHUR R.**, Douglaston, Engineer-  
ing.

**CASSIE, ROBERT M.**, Lowville, Earth  
Sciences.

**CONTI, JAMES J.**, Brooklyn, Engineering.

**CORNER, MICHAEL A.**, New York, Zool-  
ogy.

**DICK, STANLEY**, Brooklyn, Botany.

**DUBNAU, DAVID A.**, Brooklyn, Zoology.

**ECKERT, ROGER O.**, Bronx, Zoology.

**ERNST, FREDERICK J., Jr.**, Ardsley, Phys-  
ics.

<sup>1</sup> Declined.

- FALB, PETER L., Brooklyn, Mathematics.
- FARLEY, DONALD T., Jr.,<sup>1</sup> Bronxville, Physics.
- FEIN, ARTHUR, Brooklyn, Engineering.
- FREDKIN, DONALD R., Bronx, Mathematics.
- FREEMAN, RAOUL J.,<sup>1</sup> Queens Village, Mathematical Economics.
- FUNDERBURG, JOHN M., Bronxville, Engineering.
- FURSTENBERG, HARRY, New York, Mathematics.
- GANS, CARL, New York, Zoology.
- GARDINER, WILLIAM C., Niagara Falls, Chemistry.
- GILINSKY, VICTOR, Bronx, Physics.
- GLASHOW, SHELDON L., New York, Physics.
- GOLDBERG, ABRAHAM, Staten Island, Physics.
- GORDON, MALCOLM S., Brooklyn, Zoology.
- HAFS, HAROLD D., Ithaca, Agriculture.
- HALL, ROBERT D., Rochester, Physics.
- HARRIS, MORTON E., Brooklyn, Mathematics.
- HARRIS, THOMAS M., Lockport, Chemistry.
- HELFAND, EUGENE, Brooklyn, Chemistry.
- HELLER, PETER, New York, Physics.
- HERTZIG, DAVID, Brooklyn, Mathematics.
- HINCKLEY, ALDEN D., New York, Zoology.
- HORING, NORMAN J., Brooklyn, Physics.
- HORRIGAN, FRANK A., New Rochelle, Physics.
- HORSTEIN, MICHAEL,<sup>1</sup> Brooklyn, Engineering.
- JANOFF, AARON, Bronx, Zoology.
- KAGAN, EILEEN K., Riverdale, Psychology.
- KAHANE, CHARLES, New York, Mathematics.
- KAISER, ROBERT, New York, Engineering.
- KATZ, THOMAS J., Forest Hills, Chemistry.
- KAYE, NANCY E. W., New York, Zoology.
- KLOTZ, TILLA S., New York, Mathematics.
- KOLENKOW, ROBERT J., Niagara Falls, Physics.
- KRISHER, LAWRENCE C., Livonia, Chemistry.
- LAMBERT, LORETTA, North Bellmore, Microbiology.
- LASWICK, JOHN A., Ithaca, Chemistry.
- LAUFER, WILMA P., Forest Hills, Zoology.
- LEROI, GEORGE E., Peekskill, Chemistry.
- LEVINE, FRED, Brooklyn, Physics.
- LEW, JOHN S., Larchmont, Physics.
- LIGHT, JOHN C., Mt. Vernon, Chemistry.
- LUBELL, ALICE R., Brooklyn, Botany.
- LUBKIN, ELIHU, Brooklyn, Physics.
- LYNCH, EUGENE J. M., La Fayette, Physics.
- MAGE, ROSE G., New York, Microbiology.
- MANLEY, OSCAR P., Forest Hills, Engineering.
- MARVIN, DONALD A., Ossining, Biophysics.
- MATELES, RICHARD I., New York, Biochemistry.
- MCCARTHY, CHARLES A., Rochester, Mathematics.
- MCCLURE, JAMES D., Glen Cove, Chemistry.
- MCCUMBER, DEAN E., Rochester, Physics.
- MCLEOD, DONALD W., Rochester, Physics.
- METZNER, JOHN J., Rego Park, Engineering.
- MILLER, RICHARD W., Buffalo, Biochemistry.
- OLANDER, DONALD R., New York, Engineering.
- OLSEN, MARY J., Garden City, Zoology.
- PALEY, HIRAM, Rochester, Mathematics.
- PEARLMAN, ROBERT, Long Beach, Mathematics.
- PERSHAN, PETER S., Brooklyn, Physics.
- PESKOFF, ARTHUR, Jamaica, Engineering.
- PORILE, NORBERT T., Larchmont, Chemistry.
- REISFELD, MARTIN J., Brooklyn, Physics.
- REITMAN, WALTER R.,<sup>1</sup> New York, Psychology.
- RIND, KENNETH W., Brooklyn, Chemistry.
- RODRIGUEZ, DAVID A., New Rochelle, Engineering.
- ROZIN, PAUL N., Brooklyn, Psychology.
- RUBINSTEIN, SOLOMON, Bronx, Mathematics.
- SAGE, MARTIN L., New York, Chemistry.
- SALZMAN, ALICE J., Bronx, Chemistry.
- SANTORO, ANGELO V., Brooklyn, Chemistry.
- SATIR, PETER G.,<sup>1</sup> New York, Zoology.
- SCHARF, BERTRAM, New York, Psychology.

<sup>1</sup> Declined.

SCHULT, ROY L.,<sup>1</sup> Geneva, Physics.  
 SCHULTZ, JONAS, Brooklyn, Physics.  
 SCHUSTER, DAVID I., Far Rockaway, Chemistry.  
 SEERY, VIRGINIA L., Elmont, Zoology.  
 SHAKIN, CARL, New York, Physics.  
 SHAPIRO, ROBERT, New York, Chemistry.  
 SILVER, MARC S., New Rochelle, Chemistry.  
 SMITH, DAVID Y., Schenectady, Physics.  
 SOMMERFIELD, CHARLES M., Brooklyn, Physics.  
 STAFFORD, FRED E., Bronx, Chemistry.  
 STARK, GEORGE R., New York, Biochemistry.  
 STEIN, NORMAN, Laurelton, Mathematics.  
 STEIN, SIDNEY, New York, Engineering.  
 STERNHEIM, MORTON M., New York, Physics.  
 STEWART, DARYL G., Ithaca, Zoology.  
 STILLINGER, FRANK H., Scarsdale, Chemistry.  
 STRICKLER, STEWART J., New York, Chemistry.  
 STRUMEYER, DAVID H., Brooklyn, Biochemistry.  
 SWIFT, MICHAEL R., Brooklyn, Mathematics.  
 TAYLOR, HOWARD S., Bronx, Chemistry.  
 THIES, ROGER E., Scarsdale, Medical Sciences.  
 THORNDIKE, EDWARD H., Montrose, Physics.  
 TOBIAS, IRWIN, Brooklyn, Chemistry.  
 VINCOW, GERSHON, Brooklyn, Chemistry.  
 VOZICK, MICHAEL W., New York, Biochemistry.  
 WAHLIG, MICHAEL A., Woodside, Physics.  
 WASSERMAN, RICHARD S., Richmond Hill, Mathematics.  
 WEHN, DONALD, Brooklyn, Mathematics.  
 WEINBERG, STEVEN, Forest Hills, Physics.  
 WYTTENBACH, CHARLES R., Elmira, Zoology.

*Postdoctoral*

BARKER, JUNE N.,<sup>1</sup> Rochester, Medical Sciences.  
 FEINBERG, GERALD, New York, Physics.  
 GERTNER, SHELDON P.,<sup>1</sup> Hicksville, Medical Sciences.  
 HOROWITZ, JACK, New York, Biochemistry.

JEPSEN, DONALD W., Niagara Falls, Chemistry.  
 KONIGSBERG, WILLIAM H., New York, Chemistry.  
 LEBOWITZ, JOEL L., New York, Physics.  
 MARKOWITZ, SAMUEL S., Brooklyn, Chemistry.  
 MCKIBBEN, JOHN J., Rockville Centre, Mathematics.  
 O'BRIEN, REGINA TERESA, New York, Zoology.  
 ORNSTEIN, DONALD S., Harrison, Mathematics.  
 OROFINO, THOMAS A., Ithaca, Chemistry.  
 RUBEL, LEE A., Ithaca, Mathematics.  
 SIDMAN, JEROME W.,<sup>1</sup> Rochester, Chemistry.

*Senior Postdoctoral*

KAPLAN, J. GORDIN, New York, Medical Sciences.  
 LEVY, MILTON, Long Island City, Biochemistry.  
 LONG, FRANKLIN A., Ithaca, Chemistry.  
 SCHERAGA, HAROLD A., Ithaca, Chemistry.

## NORTH CAROLINA

*Predocctoral*

ALEXANDER, SHELTON S.,<sup>1</sup> Statesville, Earth Sciences.  
 BARNES, ROBERT L., Durham, Botany.  
 COGGINS, CHARLES W., Jr., Crouse, Botany.  
 DEARMAN, HENRY H., Statesville, Chemistry.  
 DOTSON, WILLIAM G., Jr.,<sup>1</sup> Badin, Mathematics.  
 POSTMA, HERMAN, Wilmington, Physics.  
 SNIPES, RAYMOND F., Reidsville, Chemistry.  
 SUMNER, THOMAS H., Asheville, Mathematics.  
 TAYLOR, DOROTHY J., Durham, Botany.  
 YOW, FRANCIS W., Asheville, Zoology.

*Postdoctoral*

SHOENFIELD, JOSEPH R., Durham, Mathematics.  
 SPIVEY, W. ALLEN, Wilmington, Mathematical Economics.  
 WALTERS, GEOFFREY, Durham, Physics.

<sup>1</sup> Declined.

## NORTH DAKOTA

*Predoctoral*

MILLER, WALTER P., Dickinson, Chemistry.

## OHIO

*Predoctoral*

ACHENBACH, KARL E., Columbus, Psychology.

BAPTIST, JAMES N., Olmsted Falls, Biochemistry.

BROWN, W. STANLEY, Bedford, Physics.

BURFORD, ARTHUR E., North Olmsted, Earth Sciences.

BUSH, RICHARD W., Kent, Chemistry.

BUTLER, JAMES N., Lakewood, Chemistry.

CLARK, THOMAS J., St. Marys, Chemistry.

DUKES, ERNEST F., Jr., Dayton, Engineering.

ELDER, CAROL-ANN, Cleveland Heights, Botany.

FARRAND, WILLIAM R., Columbus, Earth Sciences.

FEIL, JOSEPH N., Cuyaloga Falls, Engineering.

FINK, CLINTON F., Cleveland, Psychology.

GARWIN, EDWARD L., Cleveland, Physics.

GRIERSON, JAMES D., Jr., Dayton, Botany.

HELMS, CARL W., Bowling Green, Zoology.

HESS, KARL W., Englewood, Chemistry.

HUFF, ROBERT W., Canton, Physics.

LEBOR, ANDREW S., Cincinnati, Mathematics.

LENHERT P. GALEN, Arcanum, Biophysics.

LOWENSTEIN, CARL D., Kent, Physics.

McKISSICK, ROBERT J., Coshocton, Mathematics.

MINCK ROBERT W.,<sup>1</sup> Defiance, Engineering.

OGG, ANDREW P., Bowling Green, Mathematics.

PRANGE, RICHARD E., Berea, Physics.

PRATT, VAL W., East Cleveland, Physics.

REBKA, GLEN A., Jr., Cincinnati, Physics.

REED, NANCY L., Middletown, Biochemistry.

RILLING, HANS C., Findlay, Biochemistry.

SHERA, NANCY K. L., Martins Ferry, Chemistry.

SIMPSON, A. LOUISE, Oberlin, Psychology.

SLAGGIE, E. LEO, JR., Dayton, Physics.

VAN VALEN, LEIGH, Cincinnati, General Biology.

VENETTA, BENJAMIN D., Warren, Medical Sciences.

*Postdoctoral*

GORDON, JOHN E.,<sup>1</sup> Columbus, Chemistry.

MURRAY, GEORGE R., Jr., Dayton, Chemistry.

PALIK, EDWARD D., Elyria, Physics.

TOBIAS, R. STUART, Columbus, Chemistry.

*Senior Postdoctoral*

GREENBERG, G. ROBERT, Cleveland, Biochemistry.

## OKLAHOMA

*Predoctoral*

BRUNER, LEON J., Ponca City, Physics.

DABNEY, JOE M., Oklahoma City, Medical Sciences.

FOLKS, LEROY, Hydro, Mathematics.

FRETWELL, LYMAN J. Jr., Tulsa, Physics.

HEDGES, FRANK, Stillwater, Engineering.

KRUGER, CHARLES H., Oklahoma City, Engineering.

McCUNE, JAMES E., Tulsa, Engineering.

MEEKER, JAMES I., Oklahoma City, Engineering.

PRUITT, WILLIAM E., Oklahoma City, Mathematics.

YARBOROUGH, LEONE, Vinita, Mathematics.

## OREGON

*Predoctoral*

BAIRD, RICHARD L., Portland, Chemistry.

BERENSON, PAUL J., Portland, Engineering.

DE BAR, ROGER B., Eugene, Physics.

DRUMMOND, WILLIAM E., Portland, Physics.

KIND, PHYLLIS D., Portland, Microbiology.

NISKANEN, WILLIAM A., Jr.,<sup>1</sup> Bend, Mathematical Economics.

OHLSEN, GERALD G., Eugene, Physics.

PIERCE, JACK, Eugene, Anthropology.

<sup>1</sup> Declined.

RIEGER, PHILIP H.,<sup>1</sup> Milwaukee, Chemistry.

ROSS, SHIRLEY E., Portland, Zoology.

SKIENS, W. EUGENE, Burns, Chemistry.

*Postdoctoral*

MARVELL, ELLIOT N., Corvallis, Chemistry.

*Senior Postdoctoral*

BARNETT, HOMER G., Eugene, Anthropology.

MARVELL, ELLIOT N.,<sup>1</sup> Corvallis, Chemistry.

PENNSYLVANIA

*Predoctoral*

BERTRAM, WALTER J., Jr., Pittsburgh, Physics.

BODOIA, JOHN R., Pittsburgh, Engineering.

BOHACHEVSKY, IHOR O., Philadelphia, Engineering.

BOYER, ROBERT E., Palmerton, Earth Sciences.

BOYER, ROBERT H., Johnstown, Physics.

BRIDGES, JOANNE M., McKees Rocks, Chemistry.

CAVANAUGH, JAMES R., Philadelphia, Chemistry.

CLUTTER, JEROME L., Pittsburgh, General Biology.

COX, DAVID J., Swarthmore, Biochemistry.

CUMBLIDGE, GLENN W.,<sup>1</sup> Butler, Engineering.

ECKERT, RAYMOND J.,<sup>1</sup> Philadelphia, Physics.

FOLK, ROBERT T., Allentown, Physics.

GLADFELTER, WILBERT E., Ridley Park, Medical Sciences.

GLARUM, SIVERT H., Wyncote, Chemistry.

GOLLUB, LEWIS R., Philadelphia, Psychology.

GOUTERMAN, MARTIN P., Philadelphia, Physics.

GRAY, STEPHEN B., Philadelphia, Physics.

GROOM, DONALD E., Turtle Creek, Physics.

HALL, ROBERT D., Philadelphia, Psychology.

HATCH, THEODORE F., Jr., Pittsburgh, Engineering.

HIRSCHFIELD, JUDITH B., Pittsburgh, Mathematics.

HOHMANN, JERE W., Volant, Engineering.

HUBERT, JOHN F., State College, Earth Sciences.

JOHNSON, LEON J., New Castle, Agriculture.

JONES, EVAN T., Rosemont, Chemistry.

JONES, RICHARD H., Ridley Park, Engineering.

KANE, ROBERT E., Erie, Zoology.

KAUFFMAN, MARVIN E., Lancaster, Earth Sciences.

KRONENBERGER, LAWRENCE, Pittsburgh, Engineering.

LE ROY, ANDRE F., Philadelphia, Chemistry.

LITTLE, WILLIAM A., Washington, Engineering.

LOVE, WILLIAM A., Pittsburgh, Physics.

MCGREW, CARL A., State College, Physics.

M McNUTT, DOUGLAS P., Philadelphia, Physics.

M C W I L L I A M S , IAN G., Philadelphia, Physics.

MELNGAILIS, IVARS, Butler, Engineering.

MILEY, GEORGE H., Petrolia, Engineering.

MORRISON, JAMES L., Pittsburgh, Physics.

MULLHAUPT, J. TIMOTHY, Warren, Chemistry.

MUNSON, RONALD A., Lancaster, Chemistry.

NEWELL, WILLIAM E., Sharon, Engineering.

OLENICZAK, ALBERT T., Philadelphia, Engineering.

ORTTUNG, WILLIAM H., Narberth, Chemistry.

PENDLETON, HUGH N., III, Pittsburgh, Physics.

REAGLES, CAROL L., Saegerstown, Earth Sciences.

ROBINSON, BRUCE B., Chester, Physics.

ROCKMORE, DAVID M., Cambridge Springs, Physics.

ROTHBERG, JOSEPH E., Philadelphia, Physics.

SCHWARZ, WILLIAM M., Jr., Harrisburg, Chemistry.

<sup>1</sup> Declined.



SHAPIRO, GILBERT, Philadelphia, Physics.  
SHAW, LEONARD G., Philadelphia, Engineering.

SHEPPARD, RICHARD A., Lancaster, Earth Sciences.

SHER, LAWRENCE D., Merion, Physics.

SHOZDA, RAYMOND J., West Mifflin, Chemistry.

SIMMONS, VIOLET E., Philadelphia, Chemistry.

SMOLINSKY, GERALD, Philadelphia, Chemistry.

SNYDER, EUGENE I., Philadelphia, Chemistry.

SNYDER, LAWRENCE C., Pittsburgh, Chemistry.

SORENSEN, RAYMOND A., Pittsburgh, Physics.

STEIN, FRED P., Dallastown, Engineering.

VAISNYS, JUOZAS R., Philadelphia, Chemistry.

WEIGEL, JOHN W., Carlisle, Physics.

WINDGASSEN, RICHARD J., Jr., Allison Park, Chemistry.

WISE, DONALD U., Lancaster, Earth Sciences.

WOODS, ROBERT M., Jr., New Wilmington, Physics.

ZENER, JOHN R.,<sup>1</sup> Pittsburgh, Physics.

*Postdoctoral*

LISS, THEODOR ARTHUR, Temple, Chemistry.

MISNER, CHARLES W.,<sup>1</sup> Pittsburgh, Physics.

PLUMB, ROBERT C., Saxonburg, Chemistry.

SEMENOW, DOROTHY ANN, Pittsburgh, Chemistry.

VOGELSONG, DONALD C., York, Chemistry.

WESTHEAD, EDWARD W., Jr., St. Davids, Biochemistry.

*Senior Postdoctoral*

FRANKEL, SHERMAN,<sup>1</sup> Philadelphia, Physics.

HALPERN, JULIUS, Bala-Cynwyd, Physics.

RHODE ISLAND

*Predocctoral*

GREENSTEIN, HOWARD B., Cranston, Physics.

SCOTT, DIANA F., Edgewood, Zoology.

SZYMANSKI, JOSEPH J., Providence, Physics.

TANENBAUM, B. SAMUEL, Providence, Physics.

*Senior Postdoctoral*

PECK, RUSSELL A., Jr., Providence, Physics.

SOUTH CAROLINA

*Predocctoral*

DEGGES, THOMAS C., Heath Springs, Physics.

*Senior Postdoctoral*

DE TAR, DELOS F., Columbia, Chemistry.

SOUTH DAKOTA

*Predocctoral*

HAENSEL, HUBERT D., Brookings, Agriculture.

MINEHART, RALPH C., Mitchell, Physics.

MONK, JAMES D., Spearfish, Mathematics.

ROZENDAL, ROGER A., Sioux Falls, Earth Sciences.

*Postdoctoral*

JACOBSON, KARL B.,<sup>1</sup> Sioux Falls, Biochemistry.

TENNESSEE

*Predocctoral*

BLANKENBECLER, RICHARD, Kingsport, Physics.

CHADWELL, ANDREW J., Jr., Knoxville, Chemistry.

COX, JAMES R., Jr., Nashville, Chemistry.

NUNNALLY, DAVID A., Memphis, Zoology.

WHITE, GERALD M., Oak Ridge, Engineering.

TEXAS

*Predocctoral*

ADAMCIK, JOE A., Austin, Chemistry.

AGOSTA, WILLIAM C.,<sup>1</sup> Dallas, Chemistry.

<sup>1</sup> Declined.

ARONS, HOWARD L., Dallas, Chemistry.  
 ASHBY, NEIL, Dalhart, Physics.  
 CLAYTON, DONALD D., Dallas, Physics.  
 COLGATE, SAM O., Amarillo, Chemistry.  
 COX, FRED B., Jr., Temple, Engineering.  
 GORTON, BERT S., Houston, Chemistry.  
 HAM, RICHARD G., Austin, Biochemistry.  
 HILLIARD, JOHN R., Jr., San Antonio,  
 Zoology.  
 MONGER, JOANNE, Beaumont, Mathe-  
 matics.  
 PECK, CHARLES W., Freer, Physics.  
 ROBERTS, LARRY S., Dallas, Zoology.

*Postdoctoral*

ISELL, JOHN ROLFE, Mercedes, Math-  
 ematics.  
 MATHIS, JOHN S., Dallas, Astronomy.

*Senior Postdoctoral*

PHILLIPS, GERALD C.,<sup>1</sup> Houston, Physics.  
 VANDIVER, HARRY S., Austin, Mathe-  
 matics.

## UTAH

*Predoctoral*

CHRISTIANSEN, JERALD N., Logan, Engi-  
 neering.  
 EDWARDS, W. FARRELL, Farmington,  
 Physics.  
 GRANT, DAVID M., Salt Lake City, Chem-  
 istry.  
 HAHNE, GERHARD E., Salt Lake City,  
 Physics.  
 PINCOCK, RICHARD E., Ogden, Chemistry.

## VERMONT

*Predoctoral*

WEBER, ROBERT, South Burlington, Phys-  
 ics.

## VIRGINIA

*Predoctoral*

BOBERG, THOMAS C., Falls Church, Engi-  
 neering.  
 BOYDEN, JAMES H.,<sup>1</sup> Wytheville, Physics.  
 CAMPBELL, DONALD R., Charlottesville,  
 Chemistry.  
 FIELD, PETER B., Falls Church, Psychol-  
 ogy.

GEORGE, MELVIN D., Arlington, Mathe-  
 matics.  
 JENKINS, W. TERRY, Yorktown, Bio-  
 chemistry.  
 LYON, RICHARD K., Arlington, Chemistry.  
 PUBOLS, BENJAMIN H., Jr., Arlington,  
 Psychology.  
 REESE, MILLARD G., Jr., Dinwiddie,  
 Chemistry.  
 REID, DONALD L., Proffit, Engineering.  
 ZUCHELLI, ARTLEY J., Jr., Charlottesville,  
 Physics.

*Postdoctoral*

DUFORT, ROBERT H., Richmond, Psy-  
 chology.

## WASHINGTON

*Predoctoral*

ANEX, BASIL G., Seattle, Chemistry.  
 BOZAK, RICHARD E., Aberdeen, Chemis-  
 try.  
 BROWN, RONALD E., Everett, Physics.  
 BURK, HAROLD W., Tacoma, Psychology.  
 CHANG, DAVID B., Seattle, Physics.  
 COLE, DALE W., Everett, Agriculture.  
 CRAVEN, JAMES M., Seattle, Chemistry.  
 FERNEA, ROBERT A., Vancouver, Anthro-  
 pology.  
 FLUHARTY, ARVAN L., Seattle, Biochem-  
 istry.  
 GOSE, EARL E., Aberdeen, Engineering.  
 HARMON, KENNETH M., Seattle, Chem-  
 istry.  
 KAUTZ, BETTY J., Mercer Island, Zoology.  
 KING, JAMES R., Pullman, Zoology.  
 MANWELL, CLYDE P., Friday Harbor,  
 Zoology.  
 MERCHANT, HOWARD C., Bothell, Engi-  
 neering.  
 METZ, PETER R., Seattle, Engineering.  
 MINTON, ROBERT G., Seattle, Chemistry.  
 RAGLE, JOHN LINN, Pullman, Chemistry.  
 RUPLEY, JOHN A., Seattle, Biochemistry.  
 SAGLE, ARTHUR A., Seattle, Mathematics.  
 SEEDS, ROBERT B., Vancouver, Engineer-  
 ing.  
 WARE, JUDITH C., Vancouver, Chemistry.  
 WILSON, LAURENCE E., Seattle, Chem-  
 istry.

<sup>1</sup> Declined.

*Postdoctoral*

VANCE, JOSEPH A., Seattle, Earth Sciences.

*Senior Postdoctoral*

SCHMIDT, FRED H.,<sup>1</sup> Seattle, Physics.

## WEST VIRGINIA

*Predoctoral*

CAZIN, JOHN, Jr., Follansbee, Microbiology.

## WISCONSIN

*Predoctoral*

BACH, MICHAEL K., Madison, Biochemistry.

BLATTNER, ROBERT J., Milwaukee, Mathematics.

BOWMAN, ROBERT E., Madison, Psychology.

BROWN, RICHARD I., Milwaukee, Physics.

CUMMISFORD, PATRICIA D., Milwaukee, Medical Science.

DARLING, STEPHEN D.,<sup>1</sup> Appleton, Chemistry.

FRAUTSCHI, STEVEN C., Madison, Physics.

HORGAN, JAMES D., Madison, Engineering.

HOUGEN, JON T., Madison, Chemistry.

JACOB, RICHARD L., Ripon, Physics.

KREMBS, GEORGE M., Merrill, Engineering.

LAUDON, RICHARD B., Waunakee, Earth Sciences.

LUNDBERG, RAYMOND E., Lacrosse, Engineering.

MARDEN, ALBERT, Milwaukee, Mathematics.

MERTZ, ROBERT L., Milwaukee, Engineering.

MEYER, RICHARD T., Madison, Chemistry.

REIBEL, SAMUEL F., Madison, Microbiology.

RIESE, JEROME W., Kaukauna, Physics.

ROESLER, FREDERICK L., Wauwatosa, Physics.

WALECKA, JOHN D., Wauwatosa, Physics.

WEART, WENDELL D., Madison, Earth Sciences.

WERTHAMER, N. RICHARD,<sup>1</sup> Milwaukee, Physics.

*Postdoctoral*

FRENCH, GILBERT M., Madison, Psychology.

## WYOMING

*Predoctoral*

DEFPEYES, KENNETH S., Casper, Earth Sciences.

KLEINDIENST, MAXINE R., Superior, Anthropology.

TALBERT, WILLARD L., Jr., Casper, Physics.

*Senior Postdoctoral*

RHOADS, SARA JANE, Laramie, Chemistry.

## HAWAII

*Predoctoral*

MURASHIGE, TOSHIO, Hilo, Botany.

*Senior Postdoctoral*

MASON, LEONARD E., Honolulu, Anthropology.

<sup>1</sup> Declined.

*Institutions Attended by NSF Fellows as Undergraduates and Graduate Students, 1956-57*

<i>Institution and location</i>	<i>Number of fellows attending—</i>	
	<i>As under-graduates</i>	<i>As graduate students</i>
Acadia University, Wolfville, Nova Scotia	1	
Adelbert College at Western Reserve University, Cleveland, Ohio	1	1
Alabama Polytechnic Institute, Auburn, Ala	1	
Albion College, Albion, Mich	2	
Amarillo Junior College, Amarillo, Tex	1	
American University, Washington, D. C		1
Amherst College, Amherst, Mass	3	
Antioch College, Yellow Springs, Ohio	2	
Asheville-Biltmore College, Asheville, N. C	1	
Atlantic Union College, South Lancaster, Mass	1	
Augustana College, Rock Island, Ill	1	
Bakersfield College, Bakersfield, Calif	2	
Balliol College, Oxford, England		1
Barnard College, New York, N. Y	4	
Bates College, Lewiston, Maine	2	
Bethel College, North Newton, Kans	1	
Birmingham-Southern College, Birmingham, Ala	1	
Birmingham University, Birmingham, England		3
Boston University, Boston, Mass		1
Bowling Green State University, Bowling Green, Ohio	1	2
Bradford Durfee Technical Institute, Fall River, Mass	1	
Bradley University, Peoria, Ill	1	
Brandeis University, Waltham, Mass	1	
Brigham Young University, Provo, Utah	2	2
Bristol University, Bristol, England	1	
Brookhaven National Laboratory, Upton, Long Island, N. Y		1
Brooklyn College, Brooklyn, N. Y	11	
Brown University, Providence, R. I	4	9
California Institute of Technology, Pasadena, Calif	20	45
Calvin College, Grand Rapids, Mich	2	
Cambridge University, Cambridge, England	1	13
Capital University, Columbus, Ohio	1	
Carleton College, Northfield, Minn	7	
Carnegie Institute of Technology, Pittsburgh, Pa	23	13
Case Institute of Technology, Cleveland, Ohio	4	1
Cedar Crest College, Allentown, Pa	1	
Central College, Pella, Iowa	1	
Central Washington College of Education, Ellensburg, Wash	1	
Champlain College, Plattsburg, N. Y	1	
Charles University, Prague, Czechoslovakia		1
Chatham College, Pittsburgh, Pa	1	
City College of San Francisco, San Francisco, Calif	1	
Claremont Graduate School, Claremont, Calif		1
Clarion State Teachers College, Clarion, Pa	1	
Clark University, Worcester, Mass	1	
Colby College, Waterville, Maine	1	

*Institutions Attended by NSF Fellows as Undergraduates and Graduate Students, 1956-57—Continued*

<i>Institution and location</i>	<i>Number of fellows attending—</i>	
	<i>As under-graduates</i>	<i>As graduate students</i>
Colgate University, Hamilton, N. Y.-----	1	-----
College of the City of New York, New York, N. Y.-----	17	1
College of France, Paris, France-----	-----	1
College of Puget Sound, Tacoma, Wash-----	1	-----
College of the Sequoias, Visalia, Calif-----	1	-----
College of William and Mary, Williamsburg, Va-----	3	-----
College of Wooster, Wooster, Ohio-----	3	-----
Colorado A. and M. College, Fort Collins, Colo-----	2	-----
Colorado College, Colorado Springs, Colo-----	2	-----
Colorado School of Mines, Golden, Colo-----	2	-----
Columbia University, New York, N. Y.-----	16	48
Concordia College, Moorhead, Minn-----	1	-----
Connecticut College for Women, New London, Conn-----	1	-----
Cornell University, Ithaca, N. Y.-----	31	28
Dartmouth College, Hanover, N. H.-----	2	-----
Davidson College, Davidson, N. C.-----	1	-----
Deep Springs College, Deep Springs, Calif-----	3	-----
De Paul University, Chicago, Ill-----	1	-----
De Pauw University, Greencastle, Ind-----	2	-----
Dickinson College, Carlisle, Pa-----	1	-----
Drexel Institute of Technology, Philadelphia, Pa-----	6	-----
Duke University, Durham, N. C.-----	4	12
Edinburgh University, Edinburgh, Scotland-----	1	1
El Camino College, El Camino, Calif-----	1	-----
Emory University, Emory University, Ga-----	1	2
Everett Junior College, Everett, Wash-----	1	-----
Florida State University, Tallahassee, Fla-----	1	3
Fordham University, New York, N. Y.-----	1	-----
Franklin and Marshall College, Lancaster, Pa-----	5	-----
Georgetown University, Washington, D. C.-----	1	-----
George Washington University, Washington, D. C.-----	3	2
Georgia Institute of Technology, Atlanta, Ga-----	1	-----
Gettysburg College, Gettysburg, Pa-----	1	-----
Glendale College, Glendale, Calif-----	1	-----
Grand Rapids Junior College, Grand Rapids, Mich-----	1	-----
Grays Harbor Junior College, Aberdeen, Wash-----	2	-----
Grinnell College, Grinnell, Iowa-----	1	-----
Hamline University, St. Paul, Minn-----	1	-----
Hanover College, Hanover, Ind-----	1	-----
Harvard University, Cambridge, Mass-----	36	126
Haverford College, Haverford, Pa-----	2	1
Heidelberg University, Heidelberg, Germany-----	-----	1
Herzl Junior College, Chicago, Ill-----	1	-----
Hiram College, Hiram, Ohio-----	1	-----
Howard College, Birmingham, Ala-----	1	-----
Howard University, Washington, D. C.-----	1	-----
Hunter College, New York, N. Y.-----	1	1

*Institutions Attended by NSF Fellows as Undergraduates and Graduate Students, 1956-57—Continued*

<i>Institution and location</i>	<i>Number of fellows attending—</i>	
	<i>As under-graduates</i>	<i>As graduate students</i>
Illinois Institute of Technology, Chicago, Ill	5	1
Illinois State Normal University, Normal, Ill	1	1
Immaculate Heart College, Los Angeles, Calif	1	
Imperial College, London, England		1
Indiana University, Bloomington, Ind	6	12
Institute for Advanced Study, Princeton, N. J.		12
Iowa State College, Ames, Iowa	10	12
Jackson Junior College, Jackson, Mich	1	
Jacksonville Junior College, Jacksonville, Fla	1	
Jersey City Junior College, Jersey City, N. J.	1	
Johns Hopkins University, Baltimore, Md	2	12
Joliet Junior College, Joliet, Ill	1	
Juilliard School of Music, New York, N. Y.	1	
Junior College of Kansas City, Kansas City, Mo	2	
Kalamazoo College, Kalamazoo, Mich	3	
Kansas State College, Manhattan, Kans	2	1
Kansas State Teachers College, Emporia, Kans	1	
Karolinska Institute, Stockholm, Sweden		2
Kent State University, Kent, Ohio	2	
Kentucky Wesleyan College, Winchester, Ky	1	
King College, Bristol, Tenn	1	
King's College, Newcastle Upon Tyne, England		2
Knox College, Galesburg, Ill		1
Lafayette College, Easton, Pa	1	
Lamar State College of Technology, Beaumont, Tex	1	
Lasell Junior College, Auburndale, Mass	1	
Lehigh University, Bethlehem, Pa	5	1
Long Island University, Brooklyn, N. Y.	1	
Los Angeles City College, Los Angeles, Calif	1	
Louisiana State University, Baton Rouge, La	2	1
Loyola University, Chicago, Ill	3	
Luther College, Decorah, Iowa	1	
M. T. S., Dordrecht, Holland	1	
Manchester University, Manchester, England		1
Manhattan College, New York, N. Y.	2	
Mankato State Teachers College, Mankato, Minn	1	
Marine Biological Laboratory, Woods Hole, Mass. <sup>1</sup>		2
Marine Station, Naples, Italy		1
Marquette University, Milwaukee, Wis	3	2
Mars Hill College, Mars Hill, N. C.	1	
Masaryk University, Brno, Czechoslovakia		1
Mason City Junior College, Mason City, Iowa	1	
Massachusetts Institute of Technology, Cambridge, Mass	35	73
Max Planck-Institute, Gottingen, Germany		2
Messiah College, Grantham, Pa	2	
Mexico City College, Mexico, DF <sup>1</sup>		1
Miami University, Oxford, Ohio	2	

<sup>1</sup> Summer session only.

*Institutions Attended by NSF Fellows as Undergraduates and Graduate Students, 1956-57—Continued*

<i>Institution and location</i>	<i>Number of fellows attending—</i>	
	<i>As under-graduates</i>	<i>As graduate students</i>
Michigan College of Mining and Technology, Houghton, Mich.	1	-----
Michigan State University, East Lansing, Mich.	1	1
Middlebury College, Middlebury, Vt. <sup>1</sup>	1	-----
Mississippi Southern College, Hattiesburg, Miss.	1	-----
Mississippi State College, State College, Miss.	1	-----
Montana State University, Missoula, Mont.	3	-----
Morton Junior College, Cicero, Ill.	2	-----
Houghton Holyoke College, South Hadley, Mass.	3	1
Mount St. Mary's College, Emmitsburg, Md.	2	-----
Municipal University of Wichita, Wichita, Kans.	1	-----
National Institute for Medical Research, London, England	-----	2
National Institute of Oceanography, Wormley, England	-----	1
National School of Anthropology and History, Mexico City, Mexico	-----	1
National University, Canberra, Australia	-----	1
National University of Mexico, Mexico City, Mexico	-----	2
New Jersey State Teachers College, Paterson, N. J.	1	-----
New Mexico College of Agriculture and Mechanic Arts, State College, N. Mex.	1	-----
New York University, New York, N. Y.	14	9
Nobel Institute, Stockholm, Sweden	-----	1
Norfolk Junior College, Norfolk, Nebr.	1	-----
North Carolina State College of Agriculture and Engineering, Raleigh, N. C.	1	3
Northeastern University, Boston, Mass.	2	1
Northwest Nazarene College, Nampa, Idaho	1	-----
Northwestern University, Evanston, Ill.	5	7
Oberlin College, Oberlin, Ohio	5	-----
Ohio State University, Columbus, Ohio	4	7
Ohio University, Athens, Ohio	1	-----
Ohio Wesleyan University, Delaware, Ohio	2	-----
Oklahoma A. and M. College, Stillwater, Okla.	7	6
Oregon State College, Corvallis, Oreg.	2	2
Ouachita College, Arkadelphia, Ark.	1	-----
Oxford University, Oxford, England	-----	9
Park College, Parkville, Mo.	1	-----
Parson's College, Fairfield, Iowa	1	-----
Pasadena City College, Pasadena, Calif.	1	-----
Pasteur Institute, Paris, France	-----	1
Pembroke College, Cambridge, England	-----	1
Pennsylvania State University, University Park, Pa.	7	6
Piedmont College, Demorest, Ga.	1	-----
Polytechnic Institute of Brooklyn, Brooklyn, N. Y.	5	3
Pomona College, Claremont, Calif.	8	-----
Pratt Institute, Brooklyn, N. Y.	1	-----
Princeton University, Princeton, N. J.	22	49

<sup>1</sup> Summer session only.

*Institutions Attended by NSF Fellows as Undergraduates and Graduate Students, 1956-57—Continued*

<i>Institution and location</i>	<i>Number of fellows attending—</i>	
	<i>As under-graduates</i>	<i>As graduate students</i>
Providence College, Providence, R. I.....	1	-----
Purdue University, Lafayette, Ind.....	11	5
Queens College, Flushing, N. Y.....	1	-----
Radcliffe College, Cambridge, Mass.....	1	9
Randolph-Macon College, Ashland, Va.....	2	-----
Reed College, Portland, Oreg.....	7	-----
Regis College, Denver Colo.....	1	-----
Rensselaer Polytechnic Institute, Troy, N. Y.....	8	-----
Rice Institute, Houston, Tex.....	4	2
Rockefeller Foundation for Medical Research, New York, N. Y.....	-----	3
Rollins College, Winter Park, Fla.....	1	-----
Roosevelt College, Chicago, Ill.....	1	-----
Royal Institute of Technology, Stockholm, Sweden.....	-----	1
Rutgers University, New Brunswick, N. J.....	3	2
Saint Benedict's College, Atchison, Kans.....	1	-----
Saint John's University, Brooklyn, N. Y.....	-----	1
Saint Joseph's College, Philadelphia, Pa.....	2	-----
Saint Lawrence University, Canton, N. Y.....	2	-----
Saint Louis University, St. Louis, Mo.....	2	1
Saint Mary's College, Notre Dame, Ind.....	2	-----
Saint Olaf College, Northfield, Minn.....	3	-----
Sampson College, Sampson, N. Y.....	1	-----
San Diego State College, San Diego, Calif.....	1	-----
San Jose State College, San Jose, Calif.....	3	-----
Santa Monica City College, Santa Monica, Calif.....	1	-----
Santa Rosa Junior College, Santa Rosa, Calif.....	1	-----
Scripps College, Claremont, Calif.....	1	-----
Scripps Institute of Oceanography, La Jolla, Calif.....	-----	2
Seton Hill College, Greensburg, Pa.....	1	-----
Shimer College, Mount Carroll, Ill.....	2	-----
Smith College, Northampton, Mass.....	1	-----
South Dakota School of Mines and Technology, Rapid City, S. Dak.....	1	-----
South Dakota State College, Brookings, S. Dak.....	1	1
Southeast Missouri State College, Cape Girardeau, Mo.....	1	-----
Southern Illinois University, Carbondale, Ill.....	2	-----
Southern Methodist University, Dallas, Tex.....	2	-----
Southwestern College, Winfield, Kans.....	2	-----
Southwestern at Memphis, Memphis, Tenn. <sup>1</sup> .....	1	-----
Spring Hill College, Spring Hill, Ala.....	1	1
Stanford University, Stanford, Calif.....	14	37
State College of Washington, Pullman, Wash.....	-----	2
State Teachers College, Dickinson, N. Dak.....	1	-----
State Teachers College, Valley City, N. Dak.....	1	-----
State University of Iowa, Iowa City, Iowa.....	2	2
State University of New York, Syracuse, N. Y.....	-----	1

<sup>1</sup> Summer session only.



*Institutions Attended by NSF Fellows as Undergraduates and Graduate Students, 1956-57—Continued*

<i>Institution and location</i>	<i>Number of fellows attending—</i>	
	<i>As under-graduates</i>	<i>As graduate students</i>
Sterling College, Sterling, Kans.....	1	-----
Stevens Institute of Technology, Hoboken, N. J.....	-----	1
Stockton Junior College, Stockton, Calif.....	2	-----
Swarthmore College, Swarthmore, Pa.....	14	1
Swiss Federal Institute of Technology, Zurich, Switzerland.....	-----	5
Syracuse University, Syracuse, N. Y.....	2	4
Technical College, Karlsruhe, Germany.....	-----	1
Technische Hochschule Wien, Vienna, Austria.....	1	1
Temple University, Philadelphia, Pa.....	1	1
Texas A. and M. College, College Station, Tex.....	2	1
Trinity College, Hartford, Conn.....	1	-----
Trinity University, San Antonio, Tex.....	1	-----
Truett-McConnell Junior College, Cleveland, Ga.....	1	-----
Tufts University, Medford, Mass.....	3	1
Tulane University, New Orleans, La.....	1	1
Union College and University, Schenectady, N. Y.....	1	-----
Union Junior College, Cranford, N. J.....	1	-----
USAF Institute of Technology, Dayton, Ohio.....	1	1
University of Alabama, University, Ala.....	1	-----
University of Alaska, College, Alaska.....	1	-----
University of Arizona, Tucson, Ariz.....	2	1
University of Arkansas, Fayetteville, Ark.....	5	3
University of Berne, Berne, Switzerland.....	-----	1
University of Brussels, Brussels, Belgium.....	-----	1
University of Buffalo, Buffalo, N. Y.....	1	-----
University of Calcutta, Calcutta, India.....	1	-----
University of California, Berkeley, Calif.....	36	61
University of California, Davis, Calif.....	-----	4
University of California, Los Angeles, Calif.....	7	19
University of Chicago, Chicago, Ill.....	37	59
University of Cincinnati, Cincinnati, Ohio.....	2	-----
University of Colorado, Boulder, Colo.....	10	6
University of Connecticut, Storrs, Conn.....	1	1
University of Copenhagen, Copenhagen, Denmark.....	-----	4
University of Delaware, Newark, Del.....	2	4
University of Denver, Denver, Colo.....	1	-----
University of Detroit, Detroit, Mich.....	3	1
University of Florida, Gainesville, Fla.....	2	2
University of Freiburg, Freiburg, Germany.....	-----	1
University of Geneva, Geneva, Switzerland.....	-----	1
University of Gottingen, Gottingen, Germany.....	-----	3
University of Graz, Graz, Austria.....	-----	1
University of Hamburg, Hamburg, Germany.....	-----	1
University of Hawaii, Honolulu, T. H.....	1	1
University of Idaho, Moscow, Idaho.....	1	1
University of Illinois, Urbana, Ill.....	14	37

*Institutions Attended by NSF Fellows as Undergraduates and Graduate Students, 1956-57—Continued*

<i>Institution and location</i>	<i>Number of fellows attending—</i>	
	<i>As under-graduates</i>	<i>As graduate students</i>
University of Kansas, Lawrence, Kans.....	1	6
University of Kansas City, Kansas City, Mo.....	2	-----
University of Kentucky, Lexington, Ky.....	2	2
University of Leeds, Leeds, England.....	-----	1
University of Leyden, Leyden, Netherlands.....	-----	2
University of Liege, Liege, Belgium.....	-----	1
University of London, London, England.....	-----	8
University of Lund, Lund, Sweden.....	-----	1
University of Maine, Orono, Maine.....	2	-----
University of Mainz, Mainz, Germany.....	-----	1
University of Maryland, College Park, Md.....	1	4
University of Massachusetts, Amherst, Mass.....	1	1
University of Michigan, Ann Arbor, Mich.....	15	36
University of Michigan Biological Station, Douglas Lake, Mich. <sup>1</sup> .....	-----	1
University of Minnesota, Minneapolis, Minn.....	15	21
University of Mississippi, University, Miss.....	1	-----
University of Missouri, Columbia, Mo.....	4	3
University of Munich, Munich, Germany.....	-----	1
University of Nebraska, Lincoln, Nebr.....	5	4
University of New Hampshire, Durham, N. H.....	2	1
University of New Mexico, Albuquerque, N. Mex.....	4	2
University of North Carolina, Chapel Hill, N. C.....	6	3
University of North Dakota, Grand Forks, N. Dak.....	1	-----
University of Notre Dame, Notre Dame, Ind.....	4	-----
University of Oklahoma, Norman, Okla.....	5	3
University of Omaha, Omaha, Nebr.....	1	-----
University of Oregon, Eugene, Oreg.....	4	1
University of Palermo, Palermo, Sicily.....	-----	1
University of Paris, Paris, France.....	-----	4
Univ. of Pennsylvania, Philadelphia, Pa.....	10	9
University of Pittsburgh, Pittsburgh, Pa.....	-----	3
University of Richmond, Richmond, Va. <sup>1</sup> .....	1	-----
University of Rochester, Rochester, N. Y.....	11	5
University of Sheffield, Sheffield, England.....	-----	1
University of the South, Sewanee, Tenn.....	2	-----
University of Tennessee, Knoxville, Tenn.....	1	1
University of Texas, Austin, Tex.....	3	9
University of Tulsa, Tulsa, Okla.....	2	1
University of Upsala, Upsala, Sweden.....	-----	1
University of Utah, Salt Lake City, Utah.....	3	2
University of Utrecht, Utrecht, Netherlands.....	-----	1
University of Vermont, Burlington, Vt.....	1	-----
University of Virginia, Charlottesville, Va.....	5	4
University of Washington, Seattle, Wash.....	10	15
University of Wisconsin, Madison, Wis.....	10	36

<sup>1</sup> Summer session only.

*Institutions Attended by NSF Fellows as Undergraduates and Graduate Students, 1956-57—Continued*

<i>Institution and location</i>	<i>Number of fellows attending—</i>	
	<i>As under-graduates</i>	<i>As graduate students</i>
University of Wyoming, Laramie, Wyo.....	1	-----
University of Zurich, Zurich, Switzerland.....	-----	2
Utah State Agricultural College, Logan, Utah.....	2	1
Vanderbilt University, Nashville, Tenn.....	3	3
Virginia Polytechnic Institute, Blacksburg, Va.....	3	-----
Wabash College, Crawfordsville, Ind.....	1	-----
Wartburg College, Waverly, Iowa.....	1	-----
Washington and Jefferson College, Washington, Pa.....	1	-----
Washington University, St. Louis, Mo.....	1	9
Wayne University, Detroit, Mich.....	1	1
Webb Institute of Naval Architecture and Marine Engineering, Glen Cove, N. Y.....	1	-----
Wellesley College, Wellesley, Mass.....	3	1
Wells College, Aurora, N. Y.....	1	-----
Wesleyan University, Middletown, Conn.....	8	-----
West Texas State Teachers College, Canyon, Tex.....	1	-----
Western Carolina Teachers College, Cullowhee, N. C.....	1	-----
Western Kentucky State College, Bowling Green, Ky.....	1	-----
Western Michigan College, Kalamazoo, Mich.....	1	-----
Western Reserve University, Cleveland, Ohio.....	1	2
Western Washington College of Education, Bellingham, Wash.....	1	-----
Wheaton College, Wheaton, Ill.....	3	-----
Whitman College, Walla Walla, Wash.....	1	-----
Wilkes College, Wilkes-Barre, Pa.....	1	-----
Willamette University, Salem, Oreg.....	1	-----
Williams College, Williamstown, Mass.....	2	-----
Wilson College, Chambersburg, Pa.....	2	-----
Winona State Teachers College, Winona, Minn.....	1	-----
Wisconsin State College, Superior, Wis.....	1	-----
Wittenberg College, Springfield, Ohio.....	1	-----
Worcester Polytechnic Institute, Worcester, Mass.....	1	-----
Wright Junior College, Chicago, Ill.....	1	-----
Xavier University, Cincinnati, Ohio.....	2	-----
Yale University, New Haven, Conn.....	26	38
Yeshiva University, New York, N. Y.....	1	1
York Junior College, York, Pa.....	1	-----
Youngstown University, Youngstown, Ohio.....	1	-----