

college of the Merit Scholars and finalists. Results of the survey for scholars and for students who became finalists in the competition are listed in Table 1.

Table 1. 1957 Merit scholarship program.

Career	Scholars		Finalists	
	Boys	Girls	Boys	Girls
<i>Career choice</i>				
Engineering Research	158	5	1657	54
Academic	19	7	166	63
Industrial	170	44	1170	314
Government	7	2	77	22
Medicine				
Physician	46	23	414	124
Related fields (nursing, technology, pharmacy)	2	4	35	130
Teaching	74	74	392	771
Business	40	12	257	97
Law	36	3	318	22
Ministry	14		96	7
Government service	10	8	105	119
Social work, psychology	6	7	46	105
Library work		3	1	16
Writing, journalism, radio	11	11	103	172
Arts: design, music, theater	4	5	79	79
Agriculture, forestry	2		15	1
Miscellaneous	1	1	6	22
Undecided or no information	14	8	290	151
Total	614	217	5227	2269
<i>Proposed fields of specialization in college</i>				
Engineering				
Aeronautical	11		151	4
Chemical	40	2	358	17
Civil	8		114	2
Electrical	51	1	526	7
Mechanical	17		245	4
Metallurgical, mining	5		23	1
Architecture	3		44	7
Not specified	26	1	272	9
Total	161	4	1733	51
Science				
Biology	12	5	80	86
Premedical	29	16	299	100
Chemistry	45	35	414	220
Geology, geophysics	8	1	34	4
Mathematics	49	27	304	216
Physics	122	13	833	71
Not specified	14	7	93	178
Total	279	104	2057	875
Liberal arts				
Humanities	46	53	360	599
Social sciences	74	35	541	455
Not specified	8	4	72	26
Total	128	92	973	1080
Business	26	4	151	41
Miscellaneous	10	11	86	162
Undecided or no information	10	2	227	60
Total	614	217	5227	2269

Scientists in the News

PAUL E. KLOPSTEG has been named associate director for research of the National Science Foundation. Formerly an associate director of the foundation and more recently an NSF consultant, he will now be responsible for the foundation's activities in support of basic research in the sciences. Klopsteg has been professor of applied science and director of research at Northwestern Technological Institute, Evanston, Ill., and is professor emeritus at Northwestern University.

A. M. PAPPENHEIMER, JR., chairman of the microbiology department in the College of Medicine, New York University, will become professor of biology at Harvard University a year from now. He will direct the program of tutoring in the biochemical sciences in Harvard College. This includes some 150 undergraduates preparing for careers in medicine and biological research.

While he was senior chemist at the Massachusetts State Antitoxin and Vaccine Laboratory before World War II, Pappenheimer isolated the diphtheria toxin in purified form. He has since studied toxin production by the diphtheria bacillus and the mechanism by which toxin exerts its lethal action. His recent research has centered on delayed hypersensitivity, especially the allergy resulting from chronic bacterial infections.

SHERWOOD K. HAYNES, professor of physics at Vanderbilt University, has been named head of the department of physics and astronomy at Michigan State University. He will take up his new duties on a part-time basis on 1 Sept. and full time next 1 Feb.

J. B. S. HALDANE, professor of biometry at University College, London, and one of Britain's leading geneticists, left England on 24 July to settle in India. He was accompanied by his wife, Helen Spurway, who has been a lecturer on genetics and animal behavior at University College. The two scientists will work together in the Indian Statistical Office in Calcutta.

CHARLES S. HOWARD retired 31 July after 37 years as chemist with the water quality branch, Water Resources Division, U.S. Geological Survey. With W. D. Collins, former chief of the branch, he did pioneer work in investigations of water quality throughout the United States.

Howard joined the survey in 1920 after a year as chemistry teacher at the U.S. Naval Academy. He has written many papers on the chemistry of water

and is particularly well known for his contribution to knowledge of the sediment and chemical characteristics of the Colorado River. He earned his B.S. degree at Worcester Polytechnic Institute in 1918, his M.S. degree at American University in 1925, and his Ph.D. degree at American University in 1928.

JOHN B. BROWN, specialist in the chemistry of fats, has been appointed chairman of the department of physiological chemistry and pharmacology at Ohio State University, succeeding CLAYTON S. SMITH, who retired from active teaching duties this summer after 37 years of service. The new chairman, a member of the Ohio State faculty since 1924, continues also as director of the university's Institute of Nutrition and Food Technology.

MICHAEL T. CRONIN has been named manager of the newly formed department of toxicology and pathology in the research laboratories of Schering Corporation, Bloomfield, N.J. He previously had been associate pathologist at Penrose Research Laboratories, Philadelphia, Pa., and assistant professor of veterinary pathology at the University of Pennsylvania.

MICHAEL HEIDELBERGER started on 1 Aug. upon a deferred terminal sabbatical leave from Columbia University, where he is now emeritus professor of immunochemistry. He will present a paper at the second International European Congress on Clinical Chemistry in Stockholm (19-23 Aug.) and then visit a number of European countries. From October until January, on leave from Rutgers University, he will conduct research and lecture at the Faculté de Pharmacie of the University of Paris. In about the middle of January 1958 he is to give the York lecture at the University of British Columbia, Vancouver, after which he will return to Rutgers University to resume his duties as visiting professor of immunochemistry.

The New England Center Hospital has announced the establishment of a new department of infectious diseases under the direction of LOUIS WEINSTEIN who, in addition to being named chief of the new unit and senior physician at the hospital, has also been appointed professor of medicine at Tufts University School of Medicine. Both the hospital and the medical school are part of Boston's New England Medical Center. To accept these appointments, Weinstein has resigned as chief of the Infectious Diseases Service at Haynes Memorial of the Massachusetts Memorial Hospitals and as associate professor of medicine at Boston University School of Medicine.

MAX W. GARDNER, for 25 years professor of plant pathology at the University of California, became professor emeritus on 1 July. He was chairman of the Berkeley-Davis departments of plant pathology from 1936 to 1954. He plans to continue residence in Berkeley.

WILLIAM C. STADIE, professor emeritus of research medicine, University of Pennsylvania, has received the Alvarenga prize of the College of Physicians of Philadelphia for his contributions to knowledge of carbohydrate metabolism. The Alvarenga prize was established by the will of Pedro Francisco DaCosta Alvarenga of Lisbon, Portugal, as associate fellow of the College of Physicians of Philadelphia, to be awarded annually by the college on the anniversary of the death of the testator, 14 July 1883.

WALTER L. MALLMANN, professor of microbiology and public health at Michigan State University, will make a study in the eastern Mediterranean countries for the World Health Organization. Mallmann, who has written more than 200 books and articles on various phases of bacteriology, will survey the food in the countries from a public-health aspect.

Besides his 3-month study for WHO, Mallmann will also visit various laboratories in Europe. He will be on leave from Michigan State from 1 Sept. 1957 to 31 May 1958.

ALFRED L. COPLEY, formerly of New York City, has accepted a position as director of experimental research in vascular diseases at the new Medical Research Laboratories, Charing Cross Hospital, part of the University of London. Copley, an experimental physiologist, has been working since 1952 in Paris, France, at first as head of the Laboratory of Physiology at the International Children's Center, and later as Chargé de Recherches of the Institut National d'Hygiène. Copley's work will, as in Paris, also be aided by a grant from the National Science Foundation, Washington. He will continue his investigations of the endothelium in relation to hemorrhage and of thrombosis and atherosclerosis.

JOHN H. CONOVER has been named meteorologist and acting director of the Harvard University's Blue Hill Meteorological Observatory, effective 1 Sept. He will be in charge of the observatory in the interim between the retirement this summer of CHARLES F. BROOKS, professor of meteorology at Harvard and long-time head of the university's weather research station, and the arrival of RICHARD M. GOODY, British physicist, who will become professor of meteorology and observatory director on 1 July 1958.

ERICH FROMM, director of the department of psychoanalysis at the National University of Mexico, has joined the staff of Michigan State University as professor of psychology. He will conduct a concentrated seminar, the first half to be given in October and the other half in the spring term. He will also be available for consultation with the faculty and graduate students in the social sciences and related fields. Fromm, author of *Escape from Freedom* and the recently published *The Art of Loving*, will continue to spend a major portion of his time on research in Mexico, where he currently is investigating factors influencing the social and psychological revitalizing of a Mexican village.

SPAS S. IVANOFF, acting head of the department of plant pathology and physiology at Mississippi Agricultural Experiment Station, has been named head of the department.

WILLIAM V. MAYER, acting head of the department of biology at the University of Southern California, Los Angeles, has been appointed chairman of the department of biology at Wayne State University, effective 1 Sept. 1957.

ALLEN H. SCHOOLEY has resumed his position as superintendent of the Electronics Division at the Naval Research Laboratory in Washington, D.C., after a year's leave of absence as an adviser to the Brazilian Navy in matters related to the establishment of a Brazilian Naval Research Institute.

GEORGE GAMOW, professor of physics at the University of Colorado, will give the sixth annual Edsel B. Ford lecture on 8 Oct. in the auditorium of the Henry Ford Hospital in Detroit, Mich. He will discuss "Molecular genetics." The lecture will be given under the combined auspices of the Henry Ford Hospital Medical Society and the Edsel B. Ford Institute for Medical Research.

ROLAND W. WINTERFIELD, formerly research professor in the department of veterinary science at the University of Massachusetts, has joined the staff of the American Scientific Laboratories, Inc., Madison, Wis., where he is associate research veterinarian. He is a specialist in poultry respiratory diseases.

This year's honorary degree recipients include the following:

CHARLES B. HUGGINS, professor of urology and director of the Ben May Laboratory for Cancer Research at the University of Chicago, from Torino University, Italy.

JOSEPH KAPLAN, professor of physics at the University of California, from

Carleton College and from Notre Dame University.

E. W. R. STEACIE, president of the National Research Council of Canada, from St. Lawrence University.

HAROLD B. TUKEY, head of Michigan State University's department of horticulture, from Hannover Institute of Technology, Germany.

Recent Deaths

ERNST A. BESSEY, East Lansing, Mich.; 80; emeritus professor of botany at Michigan State University, early in his career professor of botany at Louisiana State University; secretary of AAAS Section G, Botanical Sciences, in 1901; 17 July.

ROBERT CHAMBERS, Concord, N.H.; 75; until recently chief of the Laboratory of Experimental Cell Research, Marine Biological Laboratory, from 1928 to 1947 research professor of biology at Washington Square College, New York University, and previously professor of microscopic anatomy at Cornell Medical College; past president of the Union of American Biological Sciences, the American Society of Zoologists, and the Harvey Society; 22 July.

ALFRED E. COHN, New Milford, Conn.; 78; specialist in the human heart and emeritus member of Rockefeller Institute for Medical Research; made fundamental contributions to the technique of electrocardiography and was the first to use the electrocardiograph in the U.S.; author of philosophic and humanistic, as well as scientific, works; 20 July.

JAMES L. FINCH, Mineola, N.Y.; 64; assistant chief engineer for Radio Corporation of America Communications, inventor and pioneer in international radio communication; 22 July.

JOSEPH B. HERSHMAN; 57; former president of Valparaiso Technical Institute, director of radio, Dodge's Telegraph and Radio Institute; 29 June.

WELLINGTON D. JONES, St. Joseph, Mich.; 71; emeritus professor of geography at the University of Chicago, for a period dean of science in the College of Arts, Literature and Science, and in 1924-25 associate dean of the College; 24 July.

C. S. McDOWELL, Bohemian Grove, Calif.; 72; engineer, formerly president and general manager of Arma Corporation, supplier of naval apparatus, coordinating engineer for the building of the Mount Palomar telescope; helped to found the New London, Conn., submarine school; 18 July.

JOSEPH R. MINEVITCH, Boston, Mass.; 65; chemical engineer and president of the newly formed J. R. Minevitch and Associates; plant designer; 3 July.