

mental, a code will be adopted, and cards containing the results of questionnaires will be sorted on electric machines of the type used in the census.

Questionnaires will be sent first to those chemists and chemical engineers who are members of the American Chemical Society, next to those now on the lists of other recognized chemical societies not members of the American Chemical Society, and finally to those not affiliated with societies representing the chemical and chemical engineering professions but who become known through suggestions made by associates.

#### THE BICENTENNIAL CELEBRATION OF THE UNIVERSITY OF PENNSYLVANIA

THE bicentennial celebration week of the University of Pennsylvania opened on September 16 and will close on Saturday, September 21. Details of the ceremonies have already been given in full in *SCIENCE*.

On the afternoon of September 20 there is planned an assembly and meeting in Convention Hall, when President Franklin D. Roosevelt, who is honorary chairman of the Bicentennial Commission, and Sir Lyman Poore Duff, chief justice of Canada, will be presented with honorary degrees. Addresses will be made by President Roosevelt, Sir Lyman, President Gates and Owen J. Roberts.

On the morning of the twenty-first there is planned a reception of delegates; addresses will be made by President Gates, Governor Arthur H. James, Provost George William McClelland, and honorary degrees will be conferred. The names of the scientific men who are among those on whom degrees are to be conferred were given in the last issue of *SCIENCE*.

On Wednesday former President Herbert Hoover gave one of the conference addresses. Owing to the international situation, Europeans who were expected to deliver addresses were unable to be present. These included Sir Thomas Lewis and Sir Henry Dale in medicine; Sir William H. Beveridge, economist, master of University College, Oxford; Dr. Alan J. B. Wace, professor of classical archeology at the University of Cambridge; from France, Professor Etienne Gilson, historian; Dr. Charles Cestre, professor of American literature and civilization, University of Paris, and Dr. Jacques Maritain, professor of philosophy at the Catholic Institute, Paris; from Denmark, Dr. Thorvald Madsen, of the State Serum Institute at Copenhagen; from Germany, Dr. Werner C. Heisenberg, professor of physics at the University of Leipzig; from Switzerland, Dr. William E. Rappard, political science.

#### RECENT DEATHS AND MEMORIALS

DR. FRANCIS HOBART HERRICK, professor of biology emeritus of Western Reserve University, died on September 11. He was eighty-one years old.

DR. GEORGE W. JACOBY, consulting neurologist of New York City, died on September 11 at the age of eighty-four years.

DR. BRUCE C. FREEMAN, of the department of geology of the Ohio State University, died on August 25 in the Waswanipi Lake region of western Quebec where he was engaged in geologic field work for the summer with the Quebec Bureau of Mines.

DR. JOSEPH BURTT-DAVY, South Africa, late university demonstrator in forestry at the University of Oxford and lecturer in tropical forest botany at the Imperial Forestry Institute, of Shotover Furze, Headington, died on August 20. From 1903 to 1913 he was government agrostologist and botanist in the Department of Agriculture, Pretoria. He had previously served on the staffs of the Royal Botanic Gardens, Kew, of the University of California and of the U. S. Department of Agriculture.

DR. C. F. JENKIN, who was elected the first professor of engineering science at the University of Oxford in 1908, a post he held until 1929, died on August 2.

THE death is announced of Dr. John Sydney Edkins, formerly lecturer in physiology at St. Bartholomew's Hospital and professor of physiology in the University of London.

R. C. MOSSMAN, meteorologist of the Scottish National Antarctic Expedition and climatologist to the Argentine Government, died on July 19 in his seventieth year.

SIR H. C. HAROLD CARPENTER, professor of metallurgy in the Royal School of Mines of the Imperial College of Science and Technology, South Kensington, died on September 14. He was sixty-five years old.

THE men's dormitory at the Michigan College of Mining and Technology has been named Douglass Houghton Hall in honor of Douglass Houghton (1809-1845) who was the first state geologist of Michigan and the first man to stress the wealth and importance of the Upper Peninsula. Brief dedication ceremonies this summer included an address by the Honorable A. E. Petermann of Calumet, chairman of the board of control of the college. The residence hall was opened for use in September, 1939.

#### SCIENTIFIC NOTES AND NEWS

ACCORDING to an Associated Press dispatch Sir Joseph Thomson, who died on August 30, was buried

on September 4 in Westminster Abbey near the graves of Newton, Darwin, Faraday and Rutherford.