adequate method of determining the relative color fastness of materials.

A safety code for dry-cleaning operations is planned. This code will deal with the mechanical hazards in dry-cleaning operations and with the toxicity of fumes. The National Association of Dyers and Cleaners has agreed to take leadership in the technical work.

Two standards of general interest to consumers have been initiated. One of these is to develop standards for household electric ranges covering definitions, methods of test, performance, durability, safety, etc. The other is to develop a similar set of standards for electric water heaters.

A progress report received from the committee on sizes for children's clothing indicates that the first standard in this field—body sizes for boys from kindergarten to junior high school—will soon be completed. This will constitute the first step in development of a more uniform and more accurate method of sizing girls' and boys' clothing.

The committee in charge of work in the mining field reported progress on a number of jobs. A preliminary draft code covering quarry operations, including open pit and strip mining, has been completed and will serve as a basis for the work of the committee developing the standards. Progress was reported also on the revision of a standard on electrical equipment in coal mines, on the revision of a standard on wire ropes for mines, and on revision of a standard for ladders and stairs for mines.

A subcommittee was appointed to study the present methods of protecting workers against health hazards arising from dusts and gases in mines.

THE MEMORIAL HOSPITAL, NEW YORK CITY

MEMORIAL HOSPITAL for the Treatment of Cancer and Allied Diseases will spend approximately $130,000 on education and research concerning the cause and treatment of cancer during this year, according to the report of Dr. Cornelius P. Rhoads, director of the hospital.

New gifts are being sought for this purpose and about $70,000 has recently been obtained toward the hospital's research budget. Contributors include Harry Payne Bingham, of New York; M. M. Rippa, of Miami Beach, Florida; Noel D. Sidford, of New York; Lucius N. Littauer, of New York; the Jane Coffin Childs Fund; the Commonwealth Fund; the Egbert C. Fuller Trust; the Holmes Foundation; the Pierre S. du Pont Fund; the J. J. Lerner Dental Fund; the Charles Lerner Research Fund; the Elise Strang L'Esperance Fund; the Research Corporation; Standard Brands; the Rockefeller Foundation, and the Community Trust. Some of these have made previous gifts for the purpose. A bequest also was received from the estate of Lucy A. Kutz, of New York.

The Rockefeller Foundation recently renewed a grant of $60,000 a year for two years, similar to the amount heretofore given by the General Education Board. This is earmarked for clinical and laboratory education and research, as well as for the training of nurses in cancer work.

The hospital conducts a broadly organized program of clinical and fundamental research into the cause, symptoms and treatment of neoplastic diseases. There are eight laboratory departments covering the natural sciences, each with its special staff of scientific experts and assistants. The research covers the field of pathology, chemistry, bacteriology, biology, physics and biophysics and includes study of radiation treatment with x-ray and radium. Particularly important experiments are being carried on in the field of chemical research, including vitamins, spectroscopy and hormones.

Much of the work of the ten clinical services also yields important cumulative data on results of various forms of treatment.

Important research is done in physics. The Department of Radiation Therapy is equipped with all approved apparatus, much of it original, including x-rays from 50 volts to 1,000,000 volts, full body x-radiation and teleradium therapy for the treatment of tumors by four grams of radium at a distance. The hospital has nine grams of radium in use. There are two low-voltage and five high-voltage x-ray therapy units and one Phillips contact treatment tube.

AWARDS OF THE SOCIAL SCIENCE RESEARCH COUNCIL

EIGHTY awards, amounting to $75,000 for the academic year 1941–42, have been announced by the Social Science Research Council, New York City. The awards provide for study and research in the fields of economics, political science, sociology, statistics, political, social and economic history, cultural anthropology, social psychology, geography and related subjects.

Seven of the awards, carrying a basic stipend of from $1,800 to $2,500, plus travel allowances, cover post-doctoral research training fellowships to men and women under thirty-five years of age who possess the degree of doctor of philosophy or its equivalent. These fellowships are granted for the purpose of enlarging the research training and equipment of promising students through advanced study and field experience.

Thirteen appointments are pre-doctoral field fellowships which carry a basic stipend of $1,800 plus travel allowance. The recipients are graduate students under thirty years of age who have completed

all the requirements for the Ph.D. degree except the thesis. These fellowships are intended to supplement formal academic study by opportunity for direct contact with the materials of social science not available in the classroom or library.

The remaining sixty awards are research grants-in-aid, designed to assist mature scholars in the completion of research projects already well under way. These grants average about $450 and do not ordinarily exceed $1,000. Twelve of these appointments were made through a special fund specifically granted for the purpose of assisting and encouraging the research of social science faculties in the South. The objectives and requirements for eligibility are the same as those governing the national grants-in-aid, but applications are restricted to fourteen southern states.

ENGINEERING AWARDS IN GREAT BRITAIN

THE following awards for 1940 of the Institution of Mining and Metallurgy are reported in *Nature:* Consolidated Gold Fields of South Africa Limited Gold Medal to C. R. Julian for his paper on "Underground Mining at Rio Tinto, Spain"; Consolidated Gold Fields of South Africa Limited Premium of forty guineas conjointly to J. Spalding and T. W. Parker for their paper on "Air-Conditioning Plant at the Ooregum Mine-Kolar Gold Field"; William Frecheville Students' Prize of ten guineas conjointly to J. E. Denyer and K. C. G. Heath for their paper on "Mining and Milling Tin-Tungsten Ore at Mawchi Mine, Burma." The council has also elected H. K. Picard to honorary membership, in recognition of his distinguished services to metallurgy.

The awards of the premiums of the Council of the Institution of Electrical Engineers are: *Institution Premium:* C. F. Booth; *Ayrton Premium:* W. A. Cook; *Fahie Premium:* A. Fairweather and J. Ingham; *John Hopkinson Premium:* G. H. Rawcliffe; *Kelvin Premium:* C. E. R. Bruce and R. H. Golde; *Extra Premiums:* C. G. Garton, L. Gosland and W. F. M. Dunne, Professor Willis Jackson and A. E. Chester, Dr. R. Jessel, W. J. Mason and S. A. G. Emms, G. H. Metson, A. Langley Morris; *Wireless Section Premiums:* N. M. Rust, O. E. Keall, J. F. Ramsay and Dr. K. R. Sturley (Ambrose Fleming Premium), C. A. Mason and J. Moir, Dr. R. H. Barfield; *Meter and Instrument Section Premiums:* Dr. A. E. W. Austen and Dr. S. Whitehead, A. J. King, Dr. R. W. Guelke, C. R. Maguire and Dr. R. A. Scott; *Transmission Section Premiums:* F. R. Perry (Sebastian de Ferranti Premium), Dr. C. Dannatt and R. A. Polson.

DEATHS AND MEMORIALS

DR. JAMES WATERMAN GLOVER, James Olney professor of mathematics, emeritus, at the University of Michigan, died on July 15 at the age of seventy-two years. Dr. Glover had been connected with the university since 1895 when he joined the faculty as instructor of mathematics.

DR. ALADINE CUMMINGS LONGDEN, since 1926 professor emeritus of physics at Knox College, Galesburg, Ill., died on July 12 at the age of eighty-four years. He joined the faculty of Knox College in 1901.

DR. OLAF ANDERSON, professor of petrographic analysis at the Stevens Institute of Technology, died on July 18 at the age of fifty-seven years.

DR. ARTHUR ALBERT WEDEL, specialist in the subsurface stratigraphy of the central Southern States, died on May 7 at the age of forty-three years.

PROFESSOR A. KRYSHTOFOVICH, of Leningrad, has written to inform us of the death in her fifty-second year, on April 12, of Dr. Nina V. Pimenova, paleobotanist and geologist to the Geological Institute of the Ukrainian Academy of Science, Kiev, and lecturer on paleobotany in the State University, and on May 5, in his eighty-fifth year, of Dr. Alexander A. Brauner, director of the Zoological Museum of the Odessa State University, Ukraine, known for his work in the zoology and zoogeography of the U.S.S.R.

DR. PETER VAN DE KAMP, of the Sproul Observatory of Swarthmore College, writes: "A letter received from the Netherlands a few days ago mentions the death of Professor Leonard Salomon Ornstein in Utrecht. Professor Ornstein was born in Nijmegen, Holland, on November 12, 1880. He studied at the University of Leiden, where he was assistant in theoretical physics and received the doctor's degree in 1908. A year later he was appointed lecturer at the University of Groningen; in 1915 he became professor in theoretical physics at the University of Utrecht and was appointed director of the physical laboratory in 1922 as successor to W. H. Julius. His field of study included molecular theory, heat, electricity, optics and liquid crystals. Ornstein's death at the early age of sixty years comes as a shock, since only recently a letter was received in which he reported himself as being in good health."

THE *Journal* of the American Medical Association reports that special ceremonies to dedicate a medallion in Touro Infirmary, New Orleans, were held, June 24, in honor of Dr. Rudolph Matas, who until his retirement in 1935 since 1895 had been affiliated with the institution. A bronze plaque carrying his likeness, executed by Mrs. J. Higginson Manning, New Orleans, was unveiled by Dr. Isidore Cohn, who succeeded him in 1935 as chief surgeon of the infirmary.