

MEDICINE

Cancer Research Grant

\$4,000,000 will provide for building and in part maintaining a projected cancer center in conjunction with New York's Memorial Hospital.

► A GRANT of \$4,000,000 from the Alfred P. Sloan Foundation to provide for building and in part maintaining a projected Sloan-Kettering Institute for Cancer Research was announced by Alfred P. Sloan, Jr., sponsor of the foundation and also chairman of General Motors. The research center will be organized in conjunction with New York City's Memorial Hospital, which specializes exclusively in the treatment of cancer.

It is estimated that the building itself will cost \$2,000,000. To be located squarely in the middle of Memorial Cancer Center, on property now owned by Memorial Hospital, the building will be especially designed for research and will be self-contained in all its various research functions.

A sum of \$200,000 will be provided each year for ten years to help defray

operating costs. Dr. Charles F. Kettering, vice president and director of research for General Motors, will help supply the general types of techniques long employed in industrial scientific research.

Although part of the Memorial Cancer Center, the institute—which has no relationship to General Motors—will be operated by a separate board of trustees composed of men primarily interested in research. The funds entrusted to the charge of these Trustees can be used for no other purpose than research. All the clinical facilities and material of the other units of the center, however, will be available to the institute. R. G. Coombe, president of Memorial Hospital, stated.

When the expansion program of Memorial Hospital has been completed, Mr. Coombe said, from the center as a base the public may well expect to benefit through improved methods of prevention, diagnosis and treatment. Ultimately the cause of cancer may be found.

“The determination of the cause of cancer is one of the great unsolved problems of mankind,” Mr. Sloan stated after announcing the grant. “The impact of the disease on the human race is appalling and, unfortunately, its magnitude too little appreciated. One out of every nine succumbs to its ravages.”

The same broad principles of organized industrial research can be adapted to the study of cancer, both Mr. Sloan and Dr. Kettering believe, and the current acceleration of scientific knowledge provides an unusual opportunity for a determined all-out attack on cancer.

Science News Letter, September 1, 1945

VIBRATION Fatigue Testing

Points the way to better products. All American Vibration Fatigue Testing Machines reproduce actual vibration conditions that delicate aircraft, automatic and electronic parts or devices will encounter in actual service. Hundreds in use by industry and schools. Eight models. Send for Bulletin 1007.



Model 100V in research laboratory of Carl Hussman Engineers, Inc., Chicago, makers of vibration control and stabilization devices.

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five parts of this in a million of water is known to kill fish. In the newly patented treatment the mill effluent is first run into a shallow pool, where fermentation with yeasts or molds breaks down the wood wastes and other organic compounds. Then the frothy mass is slowly trickled down over a series of concrete steps, where oxygen from the atmosphere can act on it. It falls into a second pool, where solid sediments gather on the bottom and can be removed. The liquid floating on top then trickles down another set of aerating steps, and by the time it reaches the bottom has lost practically all of its trouble-making contents.

Science News Letter, September 1, 1945

ENGINEERING

Hermetically-Sealed Buildings for Big Guns

► STORAGE of America's big guns, now silent, and other heavy artillery equipment, where rust, corrosion and dust cannot injure them, is a problem that may be solved by the construction of great hermetically-sealed metal containers to house them, in which the destructive air is replaced by an inert gas. This is the solution recommended by engineers of the U. S. Steel Corporation who devoted months of research and experiment to the problem.

The proposal is for a big welded steel container, resembling the Army Quonset hut. Many steel containers of this type have been constructed and are undergoing further analysis and study. After the equipment is placed in them the air, with its corroding factors of oxygen and moisture, will be replaced with nitrogen or other inert gas which should prevent deterioration over a long period of time.

Equipment so preserved will be ready for immediate use in case it is needed. The container will have to be opened with a welding or a burner's torch.

Science News Letter, September 1, 1945

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INVENTION

Pulp-Mill Wastes Made Harmless to Aquatic Life

► A METHOD for making liquid wastes from paper-pulp mills harmless to fish and other aquatic life is covered by patent 2,382,010, granted to the estate of the late Paul Hodges, formerly of Crossett, Ark.

The principal offender in the class of pulp-mill effluents considered by Mr. Hodges' patent is known as sulfate soap;