

The Kettering Laboratory of Applied

Physiology, in its present form, was founded in 1930, a gift of \$130,000.00 having been made about a year before to the University by the Ethyl Gasoline Corporation, the Frigidaire Division of the General Motors Corporation, and E. I. duPont de Nemours and Company, as a joint contribution. Actually, work on the toxicity and behavior of various chemical compounds projected for use in industry and for general distribution, had been carried out by myself and a few associates in the Department of Physiology since 1925. This work had assumed such proportions as to require greatly increased facilities in space and equipment. When the industrial groups who had interested themselves in it

were informed of this situation, they agreed to provide the funds necessary to provide a building and equipment which would be adequate for immediate needs and for an anticipated expansion of the work.

In view of the practical, as well as the scientific importance of the problems under study, it was understood that these corporations would provide funds for the maintenance of the investigative work, but it was agreed that they were under no obligation to do so, and would discontinue their contributions at any time they should choose to do so. Such contribution as they might make, however, in the form of building and equipment, or for the purchase of further equipment and supplies, was to become, outright, the property of the University of Cincinnati, without any quid pro quo except to the extent that the work of the laboratory, planned

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would, of course, be useful and valuable operating programs and policies of these believed that other industrial organizations their problems and troubles to the laboratory of a judicious policy with respect to accepted and the methods of handling such adequate and perhaps expanding financial been justified in that some twenty-odd in significant contributions to the support annual budget has steadily increased, from \$105,000.00 in 1940. Meanwhile a careful projects has been made, on the primary hygienic significance of the problems present of course, in accordance with the more or and skill of the laboratory staff.

The budget is made up of the Director (of the Laboratory) with of the previous year, or with any additions are interested in the work. The general time projects has been planned in advance been estimated, somewhat on the high side, submitted to the Board of Directors of the University for rejection, with a complete statement of the

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of continued and adequate compensation on a position.

The major function study of occupational diseases and intoxications with emphasis on the toxicity and mode of action of substances manufactured by industrial workers, or introduced into the community. This phase of applied physiology where feasible, into a study of ^{physiological} mechanism. For example, we are systematically working on the mineral metabolism, since for practical reasons it is easier to understand the nature of heavy metal poisoning than the nature of heavy metal formation, but also because, in our opinion, it is a more interesting physiological problem than the relationship of the metal to the organism. Our work also embraces field studies of occupational conditions and groups of people, so as to determine the effect of industry, and the community at large, on the health of the individual and mental and clinical data.

In an administrative sense, the Laboratory is, in effect, an independent department of the Medical College, is, however, a branch or sub-department of the Medical College, its autonomy being a matter of agreement between the Medical College, the Head of the Physiology Department, and the Director of the Laboratory. For several years my associates gave one unit of the labora

physiology, using the space and equipment of the Laboratory for that purpose. This was discontinued for reasons unrelated to organization, and may be resumed at any time, thereby turning any and all of our facilities into the teaching of physiology. We take occasional graduate students. One man took his Ph.D. in Physiology last year. We collaborate with other colleagues in the Medical School as does any other Department, but on a purely voluntary basis.

In our field of medical work, we are regarded as specialists, in a sense, and consequently the physicians on our staff see (but are not responsible for the care of) patients in the

nor can we altogether neglect the performance of diagnostic work for which there are no other local facilities. We limit these, so far as possible, to such as will be in keeping with our experimental interests, but we cannot wholly ignore special calls upon our professional services. For example, I see or am consulted about most of the cases of lead poisoning in this section of the country, and unhappily, many at distances considerably removed from Cincinnati.

The members of the staff of the Laboratory are appointed by the usual mechanisms of the University, and most of them for full-time service. Two physicians who have other professional responsibilities are on part-time, as are (two) medical students. All are salaried research workers, with formal rank in the University. There are no fellowships available in the Laboratory since we accept no work of any kind for which the Director and the staff do not take full professional and scientific responsibility.

Cancer compels me
was founded in this Medical School because
the Laboratory grew was brought to me in
since I had no intention of severing my
it remained here. I became interested in
poisoning as a student, and continued my
research of Physiology from 1921 on, and when
Ethyl Gasoline Corporation, then in Dayton
difficulties it came to me, partly as phy-
vestigator, to help it out. I have never
of medical investigation except in a Univ-
partly by reason of my deliberate choice
research as a profession, and partly because
kind of work I and my associates are doing
responsible institution which maintains a
suspicion of bias, which, rightly or wrongly
privately sponsored research. I am quite
work would not have received its present
considerable test of time, if I had not
in fact as a university function. There
that we have profited greatly as a group
cooperative collaboration of our colleagues
extensive clinical contacts which are so

than a university medical center.

No doubt eventually
fund sufficient to maintain the nucleus of
I am quite certain that some such endowment
some time ago. I have not pushed the matter
that we have had no difficulty in obtaining
work, and partly because, under present conditions
lump contributions from time to time are not
income from endowments. Moreover, there is
effect on the productivity of the entire
that the work must make its own way, on the
as well as its quality. This point needs
this condition might be regarded as one which
promotion of hack-work of an immediately practical
sound fundamental information. Nevertheless
status of industrial toxicology imposes the
clinically and hygienically useful data, the
tunity for developing basic physiologic