

June 26, 1948

Mr. C. H. VanHartesveldt,
Thompson Vita-Meter Corporation,
6402 Cedar Avenue,
Cleveland, Ohio.

Dear Mr. VanHartesveldt:

I send you herewith two copies of a memorandum dealing with the subjects which we have discussed with your people from time to time. In this memo I have outlined very briefly the experimental work which is to be done, and have indicated its probable cost, and have made certain suggestions for a formal agreement in this regard.

I have been rather slow in getting this into your hands, but I have been tremendously busy, and I have considered that I was fulfilling my responsibilities to you and your associates by getting the work under way on the basis of our general understanding, without worrying too much about the formalities. We have taken the necessary steps to get the work started in order to save as much time as possible, and I am glad to report that everything is in order in this regard.

I believe the memorandum will clarify any further matters between us. I suggest, therefore, that at your convenience, attention be given to the form of agreement under which this work is to be done. If you are quite content on these matters, after giving them consideration, I would suggest that you prepare four copies of the agreement and execute them, sending them to me for execution by the Board of Directors of the University in due course. If the simple form of agreement attached to my memorandum is satisfactory, you need only fill in the dates and the sum of money involved, making the four copies indicated. If there is anything that is not clear about our position, please do not hesitate to bring it to my attention. We are not troubled about the details of the agreement, or about the money, so long as we understand each other in a general way. On the other hand, it is our general practice to have the money paid in advance, so far as possible. This can be done on a quarterly basis or in a lump sum for the balance of this year.

In view of the fact that we have no funds to draw on, I consider it advisable for Dr. Kitzmiller to send his expense account for reimbursement at this time. Accordingly I attach it hereto. If you wish, this same procedure can be followed out subsequently, with respect to traveling expense, or it can be taken from the funds provided to us for all experimental purposes.

May I suggest that it is inadvisable that any statements concerning

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this work, and more particularly concerning any apparent results of the work, be issued to the public press, or technical journals or elsewhere without our being specifically consulted as to the form and content in any such statement. By this means we shall all be saved from embarrassment or from any possibility of a mis-statement or misinterpretation of information of this type. In making this suggestion I am deliberately calling attention to a news clipping which appeared in the May 19 National Petroleum News on the "Health Question" involved in the use of Vitol. I do not consider that the statement issued in this publication is particularly important or that it creates any embarrassing situation. Nevertheless the statement was issued prematurely, and it goes beyond anything we would be willing to say at this stage of the game. It is not wise to ^{com-}promise your own position, nor to compromise your consultants in this matter, by issuing statements which do not lean over backwards in their critical representation of the facts.

With best regards,

Cordially yours,

Robert A. Kehoe, M. D.

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Enc.

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MEMORANDUM ON INVESTIGATION OF POTENTIAL HAZARDS
OF USE OF "VITOL" ON BEHALF OF THOMPSON PRODUCTS, INC.

This investigation as contemplated by ourselves and agreed upon in principle at a conference in Cleveland, Ohio, on April 20, 1948, is to be pursued in two general and complementary phases, namely;

(a) determination of the potential hazard of contact of the skin with the "Vitol" mixture containing 3 ml. of tetraethyl lead per gallon, by subjecting experimental animals to such cutaneous contact with the product under conditions and by means comparable to those employed in the investigation of the potential hazards of cutaneous contact with gasoline containing 3 ml. of tetraethyl lead per gallon;

(b) determination of the apparent hazards of lead absorption on the part of persons who have been, and are to be, exposed to such hazards in the conduct of work which involves the preparation, handling and use of "Vitol", by carrying out a systematic program of clinical and analytical examinations of available personnel. (The latter work is to be carried out by methods comparable to those used in the investigation of the hazards associated with the manufacture, distribution and use of leaded gasoline, with such improvements in technique as have been found to be useful in recent years.)

It would appear from our experience that the proper execution of these investigations may be expected to yield a fairly definitive answer to the question of the degree of hazard associated with such exposure as may occur among garage mechanics, other maintenance personnel, and filling station handlers of the product. This does not mean that other questions may not arise, or that new and unanticipated hazards may not be created by subsequent developments and procedures in this business. Nevertheless, this type of investi-

gation should give a clear indication of the degree of hazard associated with the handling and use of this product, as compared with that which has been found in association with the distribution and use of leaded gasoline.

Scope and Duration of Investigations

It is anticipated that a period of approximately six months will be required for the completion of the observations on animals. If the results are definitive, it is likely that no further animal experimentation will be required. If the results are uncertain or ambiguous, the experiments will require some modification or repetition under somewhat different conditions. About four months of exposure of the animals will be required, and some two months will be required for the analytical study of their tissues that is expected to yield the pertinent information. (These experiments were initiated on June 7, 1948, after a period of pre-experimental observation of the animals.)

Periodic clinical examination and laboratory study of exposed personnel will be carried out at quarterly intervals (the first complete study of available personnel has been made and data will be available shortly) for a more or less indefinite period, i.e. until it can be established that the lead exposure of the personnel is (1) too small to be measured, (2) too small to have hygienic significance, or (3) too great to be within the limits of safety for indefinite periods of occupational exposure. It should be possible to obtain definitive information on this point, insofar as the existing conditions of occupational lead exposure are concerned, in about twelve months. This, according to present plans, will involve four sets of complete physical examinations (i.e. at quarterly intervals, and four series of analyses of the urine and blood of the available personnel

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for their lead content.

It is the intention of the staff of the Kettering Laboratory to undertake and maintain this program of investigation, and at the same time to keep itself fully informed of the actual and anticipated developments of this phase of the fuel industry, in order that any additions or modifications required to elucidate the real and potential health hazards can be made. To this end, the full cooperation of responsible executives of Thompson Products Inc. in providing pertinent information on their plans and progress, is solicited.

Probable Cost of Investigations

In accordance with the general plan outlined, it is anticipated that the cost of the experimental program will approximate \$5,000.00 within the calendar year 1948. The expense may be broken down, for purposes of estimation, as follows:

(a) Program of Animal Experimentation

Expenditures for compensation of personnel actually engaged in the animal experiments	\$1,560.00
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Preparation and analysis of tissues	1,280.00
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Cost of animals and food for animals	200.00
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Normally distributed proportion of expense of general cost of operating laboratory (heat, light, power, janitor service, animal care, secretarial service, annuities and pensions, etc.)	<u>1,200.00</u>
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Estimated expense	\$3,740.00
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(b) Program of Clinical Investigation of
Exposed Personnel - Conducted in
June, September and December

Medical Services	\$ 400.00	
Analytical Services	500.00	
Recording and studying data and preparing clinical report	250.00	
(Traveling expense to be reimbursed directly)		
Estimated expense		\$1,250.00
Total estimated expense		\$4,900.00

Policies of the Laboratory with Reference to
Conduct of Investigation

It seems advisable in the interest of all concerned that a general understanding concerning the policies of the Laboratory in connection with this work be arrived at and recorded. For this reason, a copy of a short form of agreement is attached to this memorandum. It is apparent that the University of Cincinnati, as represented in this instance by the Laboratory, wishes to assert and protect its position as a publicly responsible institution. It is equally apparent that it accepts the obligation to protect the sponsor of the work against any unnecessary or inadvertent divulgence of confidential trade information. The terms of this agreement otherwise deal with the willingness of the sponsor to defray the entire cost of the investigative program within certain agreed upon limitations with respect to overall sums of money within certain dates. These terms can be rewritten or restated for purposes of detail or clarity by the sponsor, so long as the principles of University responsibility are not violated. It is suggested that the present program be based on the calendar year 1948, and that funds be made available

for that purpose. However, the agreement may include a statement or phrase that will permit of the extension of the work beyond December 31, 1948 without the redrafting of a further formal agreement. Neither we, nor the Board of Directors of the University, are "sticky" about details so long as the conditions surrounding the conduct of the work are clear and mutually acceptable. It is also suggested that funds be made available to the end of the year, with the understanding that any residual sum be returned to the donor or otherwise applied against such further work as may be agreed upon mutually.

Signed:

Robert A. Kehoe

Robert A. Kehoe, M. D.,
Director, Kettering Laboratory
of Applied Physiology, College
of Medicine, University of
Cincinnati

June 25, 1948

Karl V. Kitzmiller, M.D.
Kettering Laboratory
College of Medicine
Cincinnati 19, Ohio

June 23, 1948

Expense of trip to Cleveland for the Thompson Vita-Meter
Corporation

June 16th to 19th, 1948

Railroad and Pullman		\$27.32
Hotel		4.50
Meals		12.00
Taxi		6.10
Tips, Telephone and Telegraph		4.45

TOTAL \$54.37

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