

Mr. Oliver

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JOSEPH L. GOODWILL, M. D.
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November 10, 1972

Mr. William S. Simpson, President
Raybestos-Manhattan, Inc.
205 Middle Street
Bridgeport, Connecticut 06603

Dear Mr. Simpson:

This is a review of the meeting in Lyon, France, the subject of which was the Biological Effects of Asbestos. The real purpose and importance of this meeting seems to indicate to me that there is a distinct trend in the thought of people internationally associated with the biological effects of asbestos in its relationship to disease, mainly asbestosis, and to a greater extent its significant effect on the individual in relationship to cancer.

The translation of this knowledge into future efforts by Raybestos-Manhattan Corporation and its medical personnel in relationship to the scientists, the public, and to the government remains to be evaluated. I think it would be appropriate to discuss the future trends and the course of action that was being taken by all parties concerned in this discussion.

At the present time, there is no doubt - no question - that the biological effects of asbestos leads to asbestosis and to carcinoma of the lung; both bronchogenic carcinoma and mesothelioma. As far as the different aspects of the effect of different types of asbestos are concerned, all types of asbestos are incriminated. There were papers presented which show that mesothelioma is caused by crocidolite, amosite, and chrysotile. These particular cancers of the lung are of extreme importance and lately have been given national and international publicity.

Consideration is being given to the investigations that we are pursuing relative to the possibility that other types of tumors of the body may have a relationship to asbestos exposure. This at the present time is not firm, but there was shown at this particular meeting that there is a trend toward this direction relative to gastro-intestinal tumors and possibly other types of rare tumors, such as the pancreas, esophagus, parts of the colon, and other parts of the intestinal tract. This is a point of view which has not been previously recognized. The broad social and medical implications of this particular type of environmental exposure is extremely important because we now see the implications of additional publicity affecting all organs of the body, although it is true that the respiratory system is a major primary organ of the body which is affected. The company's concern, the public's concern, and the government's concern, as discovered and reported in literature and in newspapers, is being received by the public in general industry and management and should immediately recognize the importance of such releases in the press.

or to the trace elements, but that there are indications that the fiber size and shape are important and that mesotheliomas have been produced with fiberglass and other non-asbestos materials. In intrapleural experiments ~~all types of asbestos used have produced mesotheliomas in rats.~~ A percentage figure which you might use as a measure is 61% of animals produced cancer with crocidolite, 36% with amosite, 34% with antophyllite, 30% with Canadian chrysotile, and 19% with Rhodesian chrysotile. A great many of the people felt that the trace metals were extremely relevant. The greatest conclusion of all was that in employment in asbestos, especially the insulation worker, smoking has a greater affect on asbestosis and lung cancer than anything else, and every one of the asbestos workers should stop smoking.

There was great criticism of Dr. Selikoff's paper by Dr. J. C. McDonald. He felt that the statistics presented in this paper were not accurate. He talked about the insulation workers and he asked why the insulation workers that were not included in the union were not presented as a part of the study. I could go on for hours with various types of difficulties and problems they had with asbestos, but one of the main things I would like to convey to you is that glass fiber is carcinogenic. With a peritoneal irritation and the addition of benzopyrene with chrysotile a high rate of incidences of carcinoma was produced. Chrysotile alone produced a very low incidence of mesothelioma.

In summary, I would say that there are many salient features to the discussions that were held at Lyon: (1) ~~There is absolutely a direct connection between asbestos and mesothelioma, bronchogenic carcinoma, and asbestosis.~~ (2) The union representative was adamant in that there will be a revolution in their particular area bringing about the necessity of industry getting ahead of the problem by introducing an educational program that will orient the worker as to what he is exposed to. Of course, this must be done by medically oriented personnel so that an aura of hysteria is not created. The facts are to be presented in a logical sequence in a manner of importance to such an extent that there will be a complete compliance with the OSHA requirements, and yet, not cause fear among employees. It must show the company's interest in the employees' health and what the company is doing to protect and safeguard their exposure. (3) There will be increasing publications and press releases related to the significant "epidemic" of mesothelioma and other types of carcinoma of the G. I. tract, pancreas, etc.; and then, anticipation of this particular relationship should be combatted by educational orientation of the employee. It should be emphasized that the people who are most at risk are the workers and they should be taught to use materials safely and with concern. (4) There should be a complete medical program. A complete survey of all the systems including the pulmonary system by use of modern environmental and medical means available to us and that a regular routine education program be coordinated with this physical examination. A film strip or a film should be prepared for the orientation of the employee, especially since OSHA regulations allow the individual to ask for his exposure, the amount of exposure, and the dust to which he has been exposed. I think that this program will bring about greater public relations by what is being done, no matter what publications a public relations man will produce. A public education program is certainly in order in which one can, I believe, through the media of television, radio, and newspaper educate the public as to the importance of asbestos, its uses, the biological effects of asbestos, its control,

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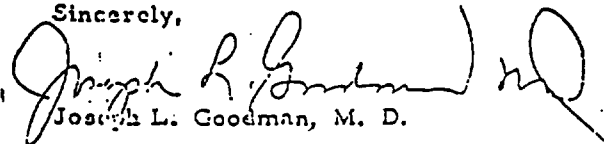
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and its indispensability to our modern technological society. It should be stressed that if properly used and properly controlled, it is a perfectly safe product.

I want to thank you very much for the opportunity to come in contact with some of the world's greatest scientists and international experimenters. I had the opportunity of sitting next to the investigator from Moscow who invited me to Moscow to visit his laboratory. I also had the opportunity of having long conversations and discussions with Dr. Gilson, Dr. Wagner, Dr. Webster, Dr. Cetin, and many others with international importance and found myself readily acceptable at their level. Of course, there is a great deal more to be discussed about this subject, but I certainly don't think this is the place for it. There are volumes and volumes of information and letters that I have read and have with me, and perhaps, at an opportunity that presents itself we will be able to discuss it person to person.

I send my best personal regards to you.

Sincerely,


Joseph L. Goodman, M. D.

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