

The first chart shows the actual results of Dr. Selikoff's four mortality studies of asbestos workers. The numbers in parentheses beside the figures for total number of workers indicate those who have so far died from all causes. The percentage figures alongside the total number of deaths from asbestosis, lung cancer and mesothelioma are based on the total number of deaths from all causes, not on the number of workers in the study.

The most important study of the group is the second from the top, showing the deaths from asbestos-related disease among all members of the insulation workers union, regardless of length of exposure. You will note that 34 per cent of those workers who have died thus far have died from one of the three asbestos-related diseases.

These, then, are the facts Dr. Selikoff works from. This is what he knows from his own investigations. Now let us take a look at what he has done with these figures in order to dramatize the problem.

Chart number II shows Dr. Selikoff's predictions about asbestos-related deaths in the United States. Without going into details, Dr. Selikoff has arrived at his projections by the simple procedure of multiplying the percentage of deaths from asbestos-related disease among his insulation workers by the total number of employees in the entire industry.

You will also note that he has raised his projected death estimate to enormous heights over the past year by simply increasing the base figure of employees exposed, while still retaining the percentage multiplier of 34 per cent being experienced by the insulation workers.

I might point out that this tactic, however deceptive, has been an enormous success since each raising of the estimate has earned Dr. Selikoff correspondingly greater coverage by the media. No finer example exists of the total gullibility of the press than the manner in which it allowed its prejudices to be manipulated and played upon in this situation.

Please don't get me wrong. I have no doubt that the insulation workers are in fact dying as rapidly as Dr. Selikoff says they are. The problem is that he has translated their mortality experience to the rest of the entire industry, which is completely erroneous.

In the first place, the estimated number of employees in the industry is too high -- five times too high to be precise. Even more important, according to an analysis by the Association of more than a dozen mortality studies, including those of Dr. Selikoff, our prediction is that approximately 25,000 past and present employees in the asbestos industry have died or will eventually die of asbestos-related disease. This is less than one-thirteenth

CHART NUMBER I

DR. I. J. SELIKOFF --- RESEARCH DATA

	<u>NO. OF WORKERS</u>	<u>DESCRIPTION OF COHORT</u>	<u>TOTAL DEATHS FROM ASBES- TOSIS, LUNG CANCER & MESOTHELIOMA</u>
MORTALITY STUDY OF TWO LOCALS OF INSULATION WORKERS UNION	625 (423)	THOSE WITH A MINIMUM OF 20 YEARS EXPOSURE	149 (35%)
MORTALITY STUDY OF <u>ALL</u> MEMBERS OF INSULATION WORKERS UNION	17,800 (1092)	ALL WORKERS ON ROLLS 1/1/67	368* (34%)
MORTALITY STUDY OF WORKERS IN A WORLD WAR II AMOSITE INSULA- TION PLANT	933 (484)	EXPOSED ONLY TO AMOSITE ASBESTOS	107 (22.1%)
MORTALITY STUDY OF WORKERS AT JOHNS- MANVILLE CORP. MANVILLE, N.J., PLANT **	689 (199)	THOSE WITH A MINIMUM OF 20 YEARS EXPOSURE	66 (33%)

* 340 OF THESE DEATHS WERE AMONG THE 5,119
EMPLOYEES WITH GREATER THAN 20 YEARS EXPOSURE

**UNPUBLISHED DATA TAKEN FROM ARTICLE IN
THE NEW YORK POST, MAY 19 2

CHART NUMBER II

DR. I. J. SELIKOFF -- PREDICTIONS

	<u>NO. OF WORKERS</u>	<u>DESCRIPTION OF COHORT</u>	✓ <u>TOTAL DEATHS FROM ASBESTOSIS, LUNG CANCER & MESOTHELIOMA</u>
ARTICLE IN WALL STREET JOURNAL - 6/8/72 - "STUDIES BY DR. SELIKOFF... LEAD HIM TO PREDICT..."	250,000	ALL WORKERS CURRENTLY EMPLOYED IN THE ASBESTOS INDUSTRY	85,000*
ARTICLE IN THE NEW YORK TIMES - 6/13/72 - (5 DAYS LATER) - "IF OUR EXPERIENCES...ARE A GUIDE..."	500,000	ALL WORKERS CURRENTLY & PREVIOUSLY EMPLOYED IN THE ASBESTOS INDUSTRY	170,000
TESTIMONY AT TOXIC SUBSTANCES HEARING - 2/21/73 - "OUR STUDIES INDICATE..."	1,000,000	ALL WORKERS CURRENTLY, PREVIOUSLY & WHO WILL BE EMPLOYED IN ASBESTOS INDUSTRY IN THIS CENTURY	340,000
AP STORY ON TOXIC SUBSTANCES HEARING	1,000,000	(AS ABOVE)	1,000,000 (MIS-QUOTE)

* ACTUAL QUOTED PREDICTION WAS 95,000, BUT THIS INCLUDED DEATHS FROM GI CANCER, WHICH I HAVE SUBTRACTED FROM THE TOTAL.

of Dr. Selikoff's most recent estimate. In addition, our figures show that 20 of the 25,000 deaths -- or 80% -- will occur among those in the insulation trades.

While these estimates should be reassuring to those in the mining and manufacturing areas of the industry, we should not forget that 5,000 of our workmen are still going to die of asbestos-related disease and that, all things considered, there is absolutely nothing that we can do to prevent it. The only thing we can do is to clean up our plants to assure that those entering the industry in the future will not have the same experience.

Within the past year and a half, the main thrust of Association effort has shifted to the government affairs front. The principal agencies in Washington with which we have been dealing are the Occupational Safety and Health Administration; the Environmental Protection Agency; the Food and Drug Administration; the Bureau of Mines; and, to a lesser degree, the National Institute of Occupational Safety and Health, and the National Institutes of Health, both of which are mainly involved in research efforts.

In addition, a few weeks ago we were contacted by the Federal Trade Commission, which had received a petition from the Center for Science in the Public Interest requesting an investigation of consumer uses of asbestos for the purpose of determining whether certain products ought to be labeled as hazardous and whether warnings should be required on all advertisements for those products. On the basis of a preliminary meeting with an investigator from the FTC it would appear that we have little to worry about in this particular area.

The Occupational Safety and Health Administration has been of enormous concern to the industry over the past 18 months. As most of you already know, the Association expended tremendous efforts during the six month period leading to the promulgation of last June's OSHA standards on asbestos. I think it is a gauge of the effectiveness of the total industry involvement in this most crucial matter that of eleven main requirements in the standards, the industry position was accepted totally by OSHA on nine of the eleven, about fifty per cent on a tenth, and totally rejected on only one.

OSHA is now planning to redo the standard package and we are working closely with them on this project. The first step will be the formation of a 15 man advisory committee to review the current standards and any additional medical and technical data that has become available in the year since the standards were promulgated.

Working in cooperation with nine other trade associations we have selected four individuals as industry-wide recommendations to OSHA for the four so-called "employer" spots on the advisory committee.