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SEVENTH SARANAC SYMPOSIUM

THE SARANAC LABORATORY of the
Edward L. Trudeau Foundation
Saranac Lake, New York

Session, Wednesday,
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PNEUMOCONIOSIS AND PULMONARY CANCER

Chairman: C. P. Rhoads, M. D.

Philosophy of Biostatistics as Applied to Environmental Pulmonary Cancer

Morton L. Levin, M. D.

Discussion

General Review

W. C. Hueper, M. D.

Discussion

Asbestos Miners

Paul Cartier, M. D.

Discussion

Asbestos Weavers

Kenneth M. Lynch, M. D.

Discussion, led by M. R. A. Morewether, M. D.

BY DOCTOR VORWALD:

Ladies and gentlemen, it's past time to begin. We're behind schedule by twenty minutes. We hope that we will proceed in making up this time during the course of the day. I will admit it's a very tight schedule, but with the leadership of our chairman, I am sure that we will accomplish our objective for today.

Before we begin formally, there are just, again, a few announcements which I must make. I call your attention to the banquet tickets for tomorrow and also the

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BY DOCTOR RHOADS:

The next paper on the Symposium concerns the paper already discussed by Doctor Hueper. If we could have a little quiet, it would be very helpful for those who are presenting papers. Doctor Hueper has asked to comment on Doctor Drinker's remarks. I think we must defer this until we can get the papers under way.

I will, therefore, introduce the paper on asbestos mining by Doctor Cartier. Doctor Cartier.

BY DOCTOR CARTIER:

Members of this Symposium: Not being a statistician, neither an epidemiologist, I don't think I should have accepted to present this paper, but I think, to excuse myself, I should say that this statistics and most of the papers I am presenting have been reviewed by your statistician in Montreal and Doctor Phillips, official statistician for National Cancer Institute of Canada in Toronto, so I would like that those two experts take the responsibility of the statements I might advance.

So I was invited to present this paper on the pulmonary cancer in the asbestos mining industry, not on account of any special qualification, only because I happen to be in charge of a clinic which has, as a primary function, to supervise the primary condition of four thousand asbestos miners, such a group of entrants offering an

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outstanding metallurgical study of cancer of the lung in relation to asbestos fibers or any other related fibers.

In the origin of mines, six different companies are doing asbestos mining operations, so for more than eighty years, and since 1945, these companies have organized the Thetford Industrial Clinic which has, as a primary aim, to fulfill a program of industrial hygiene, mainly medical and with dust control provisions.

In 1950, the concept of an inhalation of asbestos fibers and pulmonary cancer was mentioned by many investigators and it was at that moment that the Medical Advisor of the Quebec Asbestos Mining Association, saw advantages for the employees and the employers, to recommend a company investigation composed of an epidemiological and experimental study.

This report is part of this study.

The Thetford Industrial Clinic has been in operation only since 1946, and we have medical records on five thousand fifty-two employees, but this survey is based only on three thousand nine hundred fifty-seven workers having worked in the industry from two to sixty years. About one thousand employees have been rejected from this survey because they have not worked long enough, or because they have worked in different industrial trades before.

Before presenting the first table, I think it is

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worthwhile to say that the labor turn-over in the asbestos industry is one of the lowest in all the industry in Canada, meaning that the stable population is working in our mine and meaning, also, that in many aspects, it is easier to study and more representative.

The first slide please. So as I mentioned, this Table Number 1 shows the age group distribution of the group study and I don't think it needs any comments except to say that the average age of our employees is thirty-five, about two years older than the average for the general industrial population, and this table will show also that 1,577 men are included in the age group from forty to - and over, in the group where the incidence of cancer is more general.

Second -- next table, please. This table indicates the number of years spent in the asbestos mining industry by the total number of employees surveyed. Of course, this table is not as significant as would be a table indicating the specific exposure of those employees, but after many attempts it has seemed impossible to - to add together the different years spent in different concentration of fibers, to which most of the employees have been exposed, and I think as a remark too, it is worthwhile to mention that two thousand, two hundred have spent more than ten years in the asbestos industry.

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Next table, please. The following table shows a classification of various exposures in the asbestos mining industry. Realize that this classification could be discussed for many hours, and present many quarrels, but I think nevertheless that we need, for many purposes, we need a job classification, even for the exposure aspect or for research, so after we were stationed with our engineer, we took the average of all the dust survey made in the mining industry and we decided just to draw this table, and this table has also, I don't know if it is objective advantage, but has the advantage of correlating with our case of asbestosis.

I want to state that all the cases of asbestosis have belonged - have worked in slope, under that rule, I'm sorry, in the lower group, and our men having worked even from two to forty-five years in that kind of exposure, has never developed an asbestosis which was found by pathologists or epidemiologists or by experiments, to be of any sequence, any medical sequence.

This table, as you may see, presents million particles per cubic foot and the percentage of fiber count. This is very important, because from experience to experience, it seems that the fiber is the only pathological agent, rock dust not being - not being reproduced in any concensus, pulmonary fibrosis. I think, only this night

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need some further explanation, because you see that is not clear. Even this might seem a little less concentrated, but just the same we put in this whole group, because on the ground, dry work and the grizzly men are working longer, they are working in more constant concentration of fibers, and in the third place, because we have found a few exceptional cases of asbestosis in that group. So, please remember the categories, 0, 1, 2, 3, 4 and 5, because in the coming tables, they might help you to understand them.

The following tables intend to indicate incidence or prevalence of pulmonary cancer in different groups of asbestos workers in comparison to different control groups. The task of selecting significant control group has been, in this case, as everywhere, very difficult. We would have wished to be able to find a group in the province of Quebec, a group in any other comparative - comparable industrial group, but it was impossible for the following reason, that in no other industrial cities in Province Quebec, so large a proportion of the adult population is followed medically so closely, because I think I should mention to you that about thirty-three - about thirty percent of the adult population in Thetford are working in the mines, being the only industry, so we can't have a very close supervision of the function of the - of the condition of the lungs.

We tried, with the mass survey, to detect a con-

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parable survey group, but I don't think it was or is possible, because in the province of Quebec, very few adults over fifty years of age are taking advantage of the mass survey. As a matter of fact, the mass survey made in Thetford mines in 1950 by the Provincial Department of Health, did not detect a single case of pulmonary cancer, either in the general operation or in fourteen miners who have been X-rayed, so having not succeeded in selecting a good control group for the reason just mentioned, we have decided to make comparative study of incidence of the pulmonary cancer in different groups of asbestos workers, which can be studied with the same methods and which, at the same time, would present sufficient characteristics to be significant.

The next table, please. This table indicates the prevalence of pulmonary cancer according to degree of length, to degree and length of exposure and by age. This table shows the prevalence of pulmonary cancer in the group with severe exposure, that's this group, and this is more or less a control group.

This, we have six cases of pulmonary - of primary pulmonary cancer and four cases, in fact, in the group exposed and this, of course, the number being smaller, it gave us a higher incidence, but if we also take that, we have to admit that this difference in incidence is not, has

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no statistical value, because it is not more or equal to twice the secondary condition.

Next, please. This table was made at the suggestion of Doctor Pratt, who was interested to know the comparative incidence in group of employee, of employees who have been exposed to a significant degree of exposure, Category 3, 4 and 5, given as less - as one year, and as a control group, we take the group of employees with any kind of exposure, but of the Categories 1, - 0, 1 and 2.

Doctor Pratt had in mind, in suggesting that table, that the factor exposure to severe concentration of asbestos for any length of time might be as significant as the factor asbestosis itself, meaning that if there is a possible causal relationship, the inhalation of sufficient dosage of asbestos fibers might be as important as the factor asbestosis itself and at the same time, I think we have the two extremes.

In the previous slide, we have men with severe exposure, the incidence of cancer, pulmonary cancer in men with severe exposure, and in this - in this table, we have men in the group 2 with very light or very little exposure but with sufficient dosage of - of dust.

Next table, please. This table indicates the prevalence of pulmonary cancer in a series of fifty-three autopsied asbestos workers. This analysis, although not as

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important as that of Doctor Merewether of Great Britain, is based on quite a similar basis and I would think that this group is less selective, because that is no section at all. That's all the cases we meant to autopsy after - from fifteen years and over in the industry. Again here, the difference is not as big as it looks, because after using - using the standard there, we came to a difference of about only .5 between the two groups, the group with asbestosis and group with - without asbestosis.

I can not answer why there is less cases of cancer in the asbestotic group, but I think that if we could have autopsy on every employee who happens to die, we might get either a different picture of maybe an indirect explanation.

Next table, please. This table was made for the purpose of knowing if the ratio between the number of cancer deaths outside and the pulmonary cancer deaths was somewhat different from the ratio observed in a few other control groups. First, I think it should be mentioned that ninety percent of the cases for the City of Montreal and a hundred percent of the cases for the City of Thetford Mines, are autopsied, are post mortem cases, so that is why I say it is difficult to compare. I don't know in which proportion for the Province or City of Quebec, but for the Province of Quebec, the statistician and the

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epidemiologist at the same time told me that less than ten percent are post-mortem cases, so this might be not comparable to a large extent, but I think if there was any significance, we should expect to have a bigger variation in the percentages.

Next, table, please. Instead of comparing the annual prevalence on incidence of pulmonary cancer in the population of Thetford Mines with the incidence in other control groups, Doctor Phillips from the National Cancer Institute of Canada has suggested to work this number, this table, which is based on the fact that Doctor Denning has found in a random population of 46,833, an annual incidence of seven cases for each hundred thousand of population, given a year expectancy of seventy.

On that basis, Thetford Mines, which is average population of 15,000 for the last ten years, should have ten cases between - twenty-five cases of pulmonary cancer, and the actual prevalence for ten years, this ten years, the actual prevalence is nine cases.

In Montreal, with the ten years expectancy of six, six ninety or six ninety-three cases, it has, as you see, eight hundred fifty-six and I think it is worthwhile to mention that in Montreal, the rate since '45, in '45 the rate per hundred thousand of population was only .5, 5.9, and in 1950, it has reached 12.9.

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(No response).

Now, if those of you who are in the back, could you come forward so that we can really get a picture. There are a lot of seats up forward and it will only take a few minutes.

I might say that the photographer will print these pictures and you may buy one from him if you so wish; on the bulletin board outside will be a paper where you might indicate whether you want one or a dozen.

(Photograph was taken, after which the meeting was adjourned. Session reconvened at 2:37 P. M.).

PNEUMOCONIOSIS AND PULMONARY CANCER (Continued) 2:30 to 5:30 P.M.

Chromate Workers

Anthony J. Lanza, M. D.

Discussion

Experimental Pulmonary Cancer - General Review

G. Burroughs Mider, M. D.

Discussion

Pulmonary Cancer in Experimental Exposures to Chromate

Anna Baetjer, Sc.D.

Discussion

Pulmonary Cancer in Experimental Exposures to Beryllium

Arthur J. Vorweld, M. D.

Discussion.

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question of an etiological relationship between cancer of the lung and asbestos, but also between cancer of the lung and other local illness.

In 1948, I made a note of the deaths from asbestosis, asbestosis with tuberculosis and either of these with also cancer of the lung, recorded in the United Kingdom from 1924 to 1947. I placed alongside them for comparison, the corresponding data we have from silicosis and cancer of the lung. These were factual data which speak for themselves insofar as they go, but I attempted to make deductions since I felt the asbestosis deaths were too few for the purpose. I have now brought these figures up to date.

The corresponding figures for silicosis deaths amount to several thousands. They were, I think, sufficiently large to show that there is no etiological relationship between silicosis and cancer of the lung and in this I'm fortified by the data produced by the South African experts. I will not weary you, therefore, with the additions in the last three and a quarter years to our silicosis figures.

Briefly, therefore, our latest figures are recorded deaths from asbestosis, asbestosis with tuberculosis, or either complicated with cancer of the lung, with cancer, are 306. I am excluding ten of these where there is also cancer of sites other than the lungs. Our net figures are,

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Therefore, 296 deaths and of those forty-eight or 16.2 percent were associated with cancer of the lung. This shows an increase from a 13.2 percent disclosed by our earlier figures. This means that, as more deaths from asbestosis come to hand, the cumulative percentage of deaths with complicating cancer of the lung is rising rather than falling.

Now, where do we go to from here? Are these figures sufficient to indicate a causal relationship between the retention of asbestos dust in the lungs and subsequent cancer of the lung? The small numbers certainly dictate caution. Nevertheless, they represent the great majority of the deaths from asbestosis which have occurred in the United Kingdom during the past quarter of a century.

Nowadays, because of the greatly increased awareness of workers, doctors and others in the neighborhood of asbestos plants, of the disease, because of the duty of Coroners to investigate with autopsy and to report to my department, deaths suspected to be due to occupational disease, whatever it may be, the compensation benefits accruing to cases of pneumoconiosis, the system of factory inspection, our periodical check-up of the death certificates provided by the Registrar General, and for other reasons, it is likely that very few deaths from asbestosis escape notice.

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Therefore, with confidence, I think we can say that the figures point to the necessity for the collection of similar data from other communities with an asbestosis hazard, so that by means of statistical examination of the global figures so obtained, we can settle the question of whether cancer of the lung is an additional risk of asbestos exposures.

Now, I should mention here that the figures in United Kingdom, that these figures include all of them, because they come to me, so that we must not add up excess figures and - the X figures and Y figures and Z figures, and think that they're all additional cases of asbestosis, with carcinoma of the lung. One can add up, of course, different countries, but one must be very careful adding up or duplicating the same cases in the same countries.

There is another point that was brought up this morning, that the population risk of asbestos is small relatively to other industries and it fluctuates. A war brings a great increase of people, because obviously, there is a great demand for high class asbestos insulation for use in war ships and other types of work, and then it drops off again, so that one could never really get a population, for instance, to which one could relate a particular case of asbestosis, assuming that asbestos is a factor in this matter.

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Now, another thing is the reverse which I think has got to be brought in mind, into mind, that when one is considering a hazard in an industry and one wants, as the statisticians always do want, something like a world population before they give us anything very satisfactory about the matter, that you - you say what, for all purposes, the population of an industry is say two hundred thousand, your very risk may be lost in the mass of the population.

That occurs, for instance, in coal carbon trade, where I tried a number of years ago, a relatively small portion of people exposed to tar or tarry vapors, and they're lost in the whole population of the trade, but when you limit them to the people who are exposed to tar and tarry vapors, you find there is six times the risk of cutaneous cancer. In other words, the risk was lost in the overall numbers assumed to be at risk.

And, it is something like that in the asbestos trade. A lot of people don't have much exposure to asbestos at all. Now, as far as the rate in asbestos, I haven't got into that yet, but following a remark made this morning, I will try and do so.

Then Doctor Lynch did say, what is the degree of asbestosis. Now, all these people have been autopsied and all of them died primarily of asbestosis, whether they had tubercle or cancer later.

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Now, I won't weary you with the statistical approaches. Besides that, I'm very frightened of statisticians. They're going to die if I find an error in this. Not quite as bad as a psychiatrist, of course. I'm looking for the day when we have a statistical psychiatrist. Well, just another page of this, sir, then we'll be ready to throw me out.

Of the 296 deaths we are considering, 172 occurred in males and 126 in females. Eighty-two or 27.7 percent, half males and half females, were associated with pulmonary tuberculosis. The mean age of death was 48.2 years, with a range of 24 to 73 years for the cases of asbestosis. 39.3 with a range of 17 to 66 years, for the cases of asbestosis for or with tuberculosis and 53.4 years with the range of 32 to 77 for the cases of asbestosis and cancer of the lung.

The mean duration of exposure was 15.7 years with a range of one to forty-eight for deaths from asbestosis. Some took a hell of a long time to die -- 11.1 with a range of 133 - no, I put the wrong one, I'm sorry, 11.1 years, with a range of 33 years with asbestosis with tuberculosis and 19 years with a range of 2 to 49, 2 to 42 years for asbestosis with cancer of the lung.

The mean duration of life between cessation of exposure and death was 6.5 years with a range of 1 to 32 for asbestosis, 417 years - that should be 4.7 years with

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range of 1 to 21 for asbestosis with tuberculosis, and 5.8 years with a range of 1 to 26 for asbestosis and cancer of the lung.

You see the ranges are very wide indeed, which is of some interest. They say with tubercle, you can get tubercle any time. It can come on them at any time and kill them at any time. Now, there are indications, from our data, that our preventive regulations which came into full operations in 1932, twenty years ago, are having an effect and this may be the explanation of why the incidence of complicating cancer of the lung appears to be rising.

Today, we do not encounter cases of extreme massive fibrosis and gross bronchiectasis and even a sarcoma 'nutmeg' liver with death, and co plicated with tuberculosis or cancer of the lung at an early age, within five to seven years from the commencement of exposure. Those cases don't seem to occur. The duration of exposure which results in death from asbestosis is lengthened, the age of death is increasing and the degree of fibrosis found at autopsy is less.

This means that cases of asbestosis are limited to the cancer occurring age period, and if - and I say if there is a relationship between asbestosis and cancer of the lung and if irritation, let us surmise from the asbestos fiber is a co-carcinogen with a long exposure period, then

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we would expect an increased incidence of cancer of the lung over that found in the general population to become afterwards.

Regarding these cancer cases, the mean age of death, I said was 53.4 years, so I put this in for - since I found I'd be kicked off if I didn't. Now, the occupations involved are somewhat interesting. They're always different, as you know, because sometimes two occupations carried out in the same room with different dust exposures or with other different factors, but it is a little interesting to see that the majority of these forty-eight cases, that the more dusty the process, of course, it's most fallacious, but still we watch with care, for instance, weaving. Weaving is notoriously dusty, one case there with ten of these cancer lung cases, one case also associated with carding and spinning that the man had done, andone case mixing and sorting, disintegrating and mixing, either - well, eight pipe and boiler coverers, including mixing; seven, and mattress making, six and all the rest are below that, and all those are dusty jobs.

Well, what then is the etiological factor, if any here? And, I'd be most grateful for your views. I know that physical irritation as a direct carcinogenic agent has been rather debunked by the cancer experts, but I remember that some recent work by a United States expert,

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time there, and have spent a lot of time reviewing films, and not long ago, spent several days with Doctor Kenneth Smith on asbestos, reading his films.

I find it difficult to believe that our cancer incidence among asbestos workers could be anything like as large as it seems to be in England, because while I'm perfectly free to admit that we may have missed cancer cases which we should have not, on the other hand, I don't think we could have missed all of them if they had occurred, into the same extent that apparently they do in England.

Now, that is simply an observation of mine. Of course, it is true that as soon as the business of the harmful effects of asbestos once took hold in the American industry, they did start to clean up their plants and, while I wouldn't say that all the asbestos plants in the country were marvels of industrial hygiene perfection, nevertheless great strides have been made, and particularly, for instance, in the plant in Doctor Kenneth Lynch's town in Charlotte, South Carolina, where they have done a very beautiful job, so that with the small number of people in the industry, it's obvious that we are never going to have the clinical experience with asbestosis that we have, for instance, with silicosis, because there is not going to be the material to work on.

Now, back of that, there is still one more question.

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That is the nature of the asbestos itself. Now, when I first used to go to Canada, I used to hear frequently that, up there, that the Canadian asbestos was less damaging than the kind they used in England, I believe, and I have put that comment down to what we might call the national or local patriotism, you know, like the rivalry between towns, so that you so frequently see, but the fact remains the same, that in this country, we do use the asbestos, mostly the asbestos that we get from Canada, and I believe, from what I hear from our English friends, that a great deal, if not the major part of the asbestos used in England, is Rhodesian asbestos, which is quite dissimilar in its construction and in its formation, its physical characteristics, to the kind that comes from Thetford and from asbestos in Canada.

Now, that may have nothing to do with it, and up until two or three years ago, I dismissed that. I thought that was just purile, but since we have in the last few years, learned that different types of silica, for instance, produce entirely distinct pathological effect, I am beginning to wonder if we have not failed to pay sufficient attention to the type of asbestos which varies even, as I am informed, there is a difference between the asbestos that is mined in the town of Asbestos and the kind that is mined not far away in Thetford, and yet both of these, in turn,

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are quite different from the asbestos that come from Rhodesia, and possibly from other parts of the world with which I'm not acquainted.

And, having in mind the lesson we've learned in the silica dust, I think that is something perhaps that we should pay more attention to. Now, I simply raise that point, because I think it may have a great deal more significance than we have been inclined to give it.

Now, I have summarized - I have summarized my remarks here very briefly, because the topic of chrome is going to be handled by Doctor Anna Baetjer, who has done the experimental work in chrome, and has a more intimate knowledge of it from that point of view than I do.

The available evidence is that chromate workers do have an incidence of cancer of the lungs in excess of what might be expected. Beyond this, we do not as yet know a great deal.

Interest in chrome as a possible carcinogenic agent, with particular respect to lung cancer, is comparatively recent. The officials of one of the largest chrome producing companies in this country supplied the impetus that started interest in this subject in the United States, their apprehensions to tangible form, in setting on foot the statistical survey conducted by Machle and Gregorius, and published in the Public Health Reports on August 27th, 194

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There are some figures that might interest you concerning the duration of the exposure of these people until they got cancer. May I show one slide? This might interest you to show the distribution of these cases by length of exposure. If you just focus your attention, because we don't have much time, on this column and the range, you will see that the average age is fifty-two years, and the range was from thirty-one to seventy-two of these cases that have been reported in the literature.

The duration of exposure is the interesting thing here, and it varies from fourto forty-seven years. These men have been exposed to chromium, before they developed their cancer. The interval between initial exposure and the diagnosis of cancer was approximately the same, because once it is - about seventeen, and the range is four to forty-seven.

Then between the end of exposure and the diagnosis of cancer is also interesting. It shows that in some cases, the cancer may develop many years after the end of the exposure. The interval between diagnosis and death is, as in all cases of lung cancer, an average of a very short period of time.

Many of these cases which we have had and which we have studied, have come to our dispensary claiming that their symptoms, their severe symptoms, didn't begin until

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an opportunity to visit him and learn something of the material that he had assembled. He had seventeen cases in which there had been co-existent carcinoma and asbestosis in the lungs. In his series, there was no relation that could be detected between the degree of asbestosis and the presence or absence of cancer, or the degree of asbestosis and fight of cancer.

Now, his series came from a plant that used the Rhodesian blue asbestos which, as Doctor Lanza has pointed out, has certain characteristics that are different from the Canadian asbestos. It's a more brittle fiber and, therefore, gives rise to more dust. However, it was my understanding that some of the cases described in Great Britain, had had exposure to the Canadian white asbestos.

I wonder if any of our colleagues from overseas who are in the room, might care to comment on that?

I would like also, to make one further point in connection with a matter that both Doctor Doyen and Doctor Rhoads brought out, and that is the experiment of nature, where one may vary circumstances and see if that has anything to do with a phenomenon that has been observed. The question of exposure to nickel, which was brought up this morning, is something that I have been asked about by several individuals over the lunch hour.

I recently had an opportunity to visit with Doctor

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Amore who was formerly medical officer for the plant in Wales where these nasal sinus tumors had been observed, and I also visited Doctor Morgan who is the Medical Officer there at the present time.

They both stated that the men who has developed the nasal sinus tumors were not men who had been employed in the part of the plant where there might be exposure to nickel carbonel, and they were, for that reason, very reluctant to believe that the nickel carbonel was a factor in the nasal sinus tumors that had been observed.

They further pointed out that the tumors that had occurred were in men who have been exposed to the calciners, that is the ores with the - that since 1924, when the calciners were redesigned, they have not seen cancer of the nasal sinus in men whose employment in the industry has taken place only subsequent to 1924, so that it would seem that there is an instance which fulfills the stipulations that were raised this morning as to whether an experiment of nature might be performed which would have bearing on the question of an occupational hazard in the way of a respiratory tract carcinoma.

BY DOCTOR RHOADS:

Doctor Merewether, would you comment on these remarks?

BY DOCTOR MEREWETHER:

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I couldn't comment on some of them, but I think I can partially answer some of these, sir, and I think Doctor Knox can answer conclusively one of them.

First of all, I think Doctor Lanza is misinformed about the proportions of asbestos used and where they are used in England. The original cases of asbestosis, fifty years ago, were all Canadian asbestos. The earliest asbestos work in England was either seventy-eight or eighty-two and there may have been some crystalline fiber then, but very quickly the asbestos trade concentrated on the white Canadian crystalline.

Later on, the Rhodesian asbestos and the Rhodesian - the South African blue, and the third one which is also an iron silica, the amacite, came in. Now, of all of these, the amacite is definitely the most brittle. It has short fibers, it's brown and it's got fibers as long as that (indicating) whereas the best Canadian spinning fibers have only got fibers as long as that (indicating) and the best blue is about that.

Well, there is no doubt about the dustiness of the amacite. That is the brown long fibered stuff, to such an extent that it's very little used today, so it's at the period where some of these cases are concerned, or where the cases of asbestosis occurred - some of my old friend Glynn's cases occurred - there was a good deal of blue and

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a good deal of anacite used.

Now, I think Doctor Knox will be able to tell us, in his plant, which is the biggest in the country, what about the types of asbestos they use in that particular factory, and the - whether they have had any carcinoma of the lung.

Now, about the nickel cancer, it is perfectly correct that none of us think that nickel carbon has anything to do with it as such for the very simple reason that - well, one reason is that nickel carbon is so toxic that we should build a factory in order to get the - in order to get the little cancer, and of course, it might act in that proportion, then I should imagine a lot more people would have been effected.

Doctor Amore or Doctor Morgan and myself feel that the - that the re-building of the old calciners was the crucial change in the matter, though there was some operation in the constitution of the materials which are shipped from Port Home in Canada. The difference, as I know, because I saw it before and afterwards, between the old and extremely dusty calcincers and the modern build, is enormous. Therefore, there may be some hope in the fact that perhaps a lot of big dosage is necessary to produce some of those cancers.

BY DOCTOR READS:

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SEVENTH SARANAC SYMPOSIUM

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DATE	NAME	MAILING ADDRESS
20/9/52	E. A. Mewesheimer	— England —
9/21/52	Dr. C. Brumfield	Here.
	B. Jay Knight	
9-21-52	J. A. Shimkin M.D.	406 E. Broadway Toledo 5-Ohio
9-21-52	Raymond Hussey	532 No. Dearborn St. Chicago Ill.
9-21-52	John Y. H. Chiu	Bellevue Hosp. 26th St. and 1st Ave. N.Y. 16, N.Y.
9-21-52	A. J. Ameuille	Central Chimney Rangé Grande L'Orge
9-21-52	R. Emmett Doherty	Anthracite Institute Wilkes-Barre
9-21-52	M. Evans M.D.	25 W. Ridge St. Canton Pa.
9.21.52	Henry A. Gonyean	18400 Cherry Lawn Detroit 21, Mich
9-22-52	William B. Means, M.D.	407 Broad Ave, Leonia, N.J.
9-21-52	H. Burton Wolf	186 Wendell Terrace Bayonne N.J.
9-21-52	Karl J. Breslich, M.D.	11 Worcester St. - West Boylston, Mass
9-22-52	Ruel C. Stratton	700 Merritt St. - Hartford 10 Conn
9/22/52	George E. Richardson M.D.	1151 Main St. - Tonawanda N.Y.
9-22-52	Harold W. Wormley	50-7th St. N.E. Atlanta, Ga.
"	Lenyl McLeod	M of Mich — Ann Arbor Mich
9.22.52	Hugo Muench M.D.	Hill Blvd. East Liverpool, Ohio
9/22/52	Thomas C. Riegle M.D.	30 Rockefeller Plaza, New York 20, N.Y.
9/22/52	Maj. Genevieve E. Morgan	3700 Massachusetts Ave N.W. Washington 16, D.C.
	Robt. H. Bowen	Ironwood, Mich
9/22/52	A. G. A. Stallings	625 Washington Ave Belmont
	Winchester.	Queens College Cambridge England
	J. P. King	Savings Bank - Rochdale England
	Frank Farraye	Bethlehem Brass Corp. Detroit 32, Mich
	W. F. Eckert	28210 W. Oakland Rd Bay Village Ohio
	T. W. FLAHIFF	114 Prospect Ave Burlingame Calif
	W. H. Sumner	U.S. Public Health Service, Washington, D.C.
	John F. Zielinski	Bendix Brake Co. Southfield, Mich.
	E. S. Peters	Corner Brook Newfoundland Can.
	James J. Waring	4200 E. 9th Ave Denver Colo
	R. F. Bell	4200 E. 9th Ave Denver Colo
	P. Enterline	Tuberculosis Institute Clinic
	W. Lyle Cooper	Div. of Occupational Health, U.S.P.H.S. 1014 Broadway, Cincinnati
	C. D. Yaffe	" " " " " " "
	Joseph G. Archer	" " " " " " "
	C. J. Bulbrow	" " " " " " "
	Conrad B. Harrell M.D.	4th Dep. Surg. Gen. Public Health Service Washington 25, D.C.
	L. B. Berger	U.S. Bureau of Mines, Pittsburgh, Pa.
	F. Rohde	66 Madison St Nutley 10, N.J.
	H. B. Aske	Dept. Health Barre Vt
	Raymond Jamieson	64-73rd Street, Brooklyn N.Y.
	Earl E. Litz	18-211 General Electric Co. Pittsfield Mass.
	C. Brandt-Wyss	Burgdorf - Switzerland

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ACCOMPANIED BY WIFE	REPRESENTING ORGANIZATION	WHERE REGISTERED	AUTO-MOBILE
No	Ministry of Labour England	DR. Vorwald	No.
	"	—	—
	Chairman all Industrial Comm		
Yes	Ohio Sclerosis Exhibit Refused	Saranac Hotel	Yes
No	American Industrial Hyg. Assoc.	Saranac Hotel	Yes
No	House staff, Chest Service, Bellevue Hosp.	Alpine Hotel	No
NY	Texas Chamber of Mines	W A J Bennett	
No		Saranac Inn	Yes
No	Lehigh Manganese Coal Co	Saranac Inn	
Yes.	Michigan State Accident Fund	Guenther	yes.
Yes	Amer. Insp. Assn. of New Jersey	Pine Hurst Lodge	Yes
No	Onondaga Pottery Engineer	Pine Hurst Lodge	Yes
No.	Norton Company Abrasive Materials	Hotel Saranac	Yes
—	Travelers Insurance Co	Hotel Saranac	Yes
Yes	Ford Motor Co	American Exp. Boat Club	Yes
No	U.S. Pub. H.	Canoe Club	Yes
NO	U of Mich	Pinehurst	"
No	East Liverpool Dist. Potteries	"	No.
No.	Standard Oil Company (N.J.)	Hotel Saranac	No.
—	Bureau of Mines (U.S.) Interstate Depts.	Hotel Berkeley	No
No	Dr Julius Research Found	Hotel Saranac	No
No.	Rip. Activity Co.	Hotel Saranac	No
no	Turner Rochdale.	"	no
yes	Bohn Aluminum Brass Corp	Inpsand (Canada)	yes
No	Pickands Mather & Co	Pinehurst	No
No.	Ind. Workmens Separation Co	Saranac Hotel	Yes.
No.	Int. Association of Fire Chiefs	Saranac Hotel	Yes.
Yes	British Burglar Co.	Amp. Pan. Boat Club	Yes
Yes	Dept of Health N.Y.C.D	Pinehurst	Yes.
	Univ. Colo. School of Medicine	Hotel Saranac	No
No	Univ. Colo. School of Med	Hotel Saranac	No
No	Indiana University Surgeon		Yes
No.	U. S. Public Health Service	Ampersand Pay Boat Club	Yes.
No	" " " "	" " " "	"
"	" " " "	" " " "	No.
"	" " " "	" " " "	Yes
—	Va. Dept. Public Health	Berkeley Hotel	No.
Yes	U.S. Bureau of Mines	Pinehurst Lodge	Yes
No	Tenn. Min. Dept. A & R Co.	Saranac Hotel	No.
No	Vt. Dept. Health Ind. Hyg. Div	" "	No
No	Columbian Carbon Co.	Villa Tivoli	Yes
Yes	General Motors	Hotel Saranac	Yes
No		96 Rat Quota (Miss Burpee)	No

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SEVENTH SARANAC SYMPOSIUM

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DATE	NAME	MAILING ADDRESS
Sept 22	Roosevelt Hotel	Univ. of Pittsburgh
Sept. 22	Clifford L. Tobin	75 State St. Albany N.Y.
Sept 22	Miguel Vega	1758 Hidalgo St. Monterrey N.L. Mex
Sept. 22	Salvador Pedroza	1 metalurgica - Torreón, Coah. Mexico
" 22	[illegible]	9 Nuevo Leon 172, Insurgentes Mex.
" 22	H.E. Stynelin	2561 Bloomingdale Chicago
" 22	C.J. Schlueter	407 Grand St., Wausau, Wis.
" 22	Paul Lange	1200 Empire Bldg. Milwaukee Wis.
" 22	Otto A. Wrisley	State Dept. of Health Madison Wis.
" 22	Nathan B. Hoogesen	1041 St Paul St.
" "	John P. Glynn (Hyatt)	4444 E. Madison, Kirkwood Mo.
" "	Dennis Brieger	1025 Walnut St. Phila. 7 Pa.
" "	James F. McVeigh	239 Parrino Ave Elkins Park Pa.
" 22	Julian Kaltreider	290 Alexander St Rochester N.Y.
" "	Harry M. Rochlin	203 Branch St, Bonne Terre, Mo.
" "	Helen W. Mabbett	720 N. Lincoln St, Syracuse 4, N.Y.
9/24/22	William Robert	2732 Union St. Ridgewood N.Y.
"	J.J. Bamberger	701 E. Third St Bethlehem, Pa.
"	[illegible] (W.F. Davis)	[illegible]
"	N.I. McKay	Mem Hospital, Homestead, Penn
"	Eugene Mayer	850 5th Ave NYC
"	[illegible]	22 East 40th St. New York 16 NY
"	[illegible]	[illegible]
"	[illegible] (S.E. Telleffsen)	18 E 48th St. NYC
"	[illegible]	80 Center St. NY 13, NY
"	G.E. Kew	907 15th St., N.W., Wash. 5, D.C.
"	G.E. Martin Jr.	Golden Clinic, Elkins, W. Va
"	Roswell H. Lewis	Army Environmental Health Laboratory, Army Medical Center
"	J.E. Brooks	Allegheny Ludlum Steel Corp. Watervliet
"	E. Emerson (Thos. W. Hale)	324 E Was. Indianapolis
"	Thomas Nelson	30 East 42nd NY 17 NY
"	A. Grand Grand M.D.	30 East 42nd St. NY 17 N.Y.
"	G. Nelson, M.D.	30 E. 42nd St. New York 17, N.Y.
"	Jas. Hampe M.D.	Overtown 141 Anniston, (Ala.)
"	Wm. S. McCann M.D.	Univ. of Rochester Med. Sch.
"	Grant K. Farlanio M.D.	580 Park Ave NYC
"	Robert M. Simpson	5th & Bellefield Pittsburgh 13 Pa.
"	Franklin Stream	639 Hillcrest Dr. Barberton Ohio
"	Sidney E. Wolfson	820 Rose Bldg. Cleveland 15 O.
"	H.V. Carl Gulyas	2020 East 93rd Cleveland 6, Ohio
"	Harold [illegible] Curtis	43-10 Richmond Rd. Cleveland 22 O.
"	[illegible]	401 Liberty Ave, Pittsburgh 30 Pa.
"	[illegible] A. V. et al	976 MacEachran Ave Montreal Quebec

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ACCOMPANIED BY WIFE	REPRESENTING ORGANIZATION	WHERE REGISTERED	AUTO MOBIL
Yes	Univ. of Pgh. and Bur. Hyg. Pgh.	Penn.	Yes
No	N.Y. State Crushed Stone Assn.	Sheldon Motel	yes
no	Cia. Mineria de Penoles S.A.	Saranac Hotel	no
no	Cia Mineria de Penoles S.A.	Saranac Hotel	no
yes	Pickands Mather Co.	Saranac Hotel	no
yes	Cleveland Cliffs Iron Co	Saranac Hotel	yes
No	Employers Mutuals of Wausau	Saranac Hotel	no
No	Employers Mutuals of Wausau	Saranac Hotel	no
no	State of Mich	Saranac Hotel	no
yes	Mich	" "	yes
yes	St. Louis University	" "	yes
no	Jefferson Medical College	" "	no
No	American Mutual Liability Ins Co.	" "	yes
yes	University of Rochester	Gaithain	yes
No	St. Joseph Lead Co.	Ampersand	yes
No	Penn Steel Foundry	Saranac	No
No	Bethlehem Steel Co	Saranac Hotel	No.
No	"	"	No
yes	General Coal Co.	"	yes
no		Ampersand	"
yes	N.Y. State Comp. Bd.	Will Rogers Hosp	"
Yes	Johns-Manville	Saranac Hotel	yes
no	Johns Manville	Saranac Hotel	no
yes	Brant Edwards Carbon Corp	" "	yes
Yes	Un. States Dept of Interior	Will Rogers Hosp	Yes
No	U.M.W.A. Welfare & Retirement Fund	Saranac Hotel	no
NO	Golden Clinic	Saranac Hotel	NO
No	U.S. Army Watervliet	Private Res, Mr. Simpson	Yes
yes	Allegheny Ludlum Steel Corp	Hotel Saranac	yes
No	Self-Employed		No
Yes	Union Carbide & Carbon Corp	Mineral Lake Inn Lake Placid	yes
Yes	Union Carbide & Carbon Corp.	Medical Arts Center	yes
No	Union Carbide & Carbon Corp.	Maria Lake Inn, Lake Placid	yes
No	University Anesthesiology	Dr. Maresca	No
No	Univ of Rochester	Dr. Brownfield	Yes
	Gaenslen Morton		
No	Columbia-Southern Chem. Corp		Yes
No	" " " "		No
Yes		Placid Manor	yes
Yes	Cleveland Clinic	Saranac Hotel	yes
No	Sunny Acres Hospital	Kenny Co Motor Co	Yes
No	Jones & Laughlin Steel Corp	Lake Placid	No
no	Illinois Compensation Board Insp	Saranac Inn	no

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SEVENTH SARANAC SYMPOSIUM

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DATE	NAME	MAILING ADDRESS
9/22/52	S.W. Kotok	Ironwood, Mich
"	C.C. Lauter, MD	Milwaukee, Wis
	Henry G. Brodkin M.D.	1060 Broad St Newark 2, J.
	E.A. Hayes	711 No. Jackson St Chgo, Ill
	George E. Best	Baltimore, Md. - 1308 Eutaw St.
	D.J. McFaug	240 Tremont St Boston [illegible]
	Charles J. Siegel	Univ. of Rochester, N.Y.
	John A. Hyslop	119 Grand St, Albany, N.Y.
	Guy Turner Jr.	11 N. Pearl St. Albany 7, N.Y.
	Shirley F. Motley	Hospital Saranac, 1212 State St Los Ang
	[illegible]	Columbus 16, Ohio, Ohio State Univ
	J.T. Gilbertson M.D.	Chippewa, Ont. - Box 69
	E.B. Johnson M.D.	3520 Fort Rd, Birmingham, Ala.
	R.H. Ferguson	Republic Steel Corporation, Cleve
	Asa D. Rusk MD	Chrysler Corp. Detroit Mich
	F.H. Tarran Crawford	Provincial Dept of Health, Provincial Lab
	Bertram J. Billeaud	Dept of Public Health, Lansing
	Gradie B. Rountree M.D. VITA V. TLEIS:S	Louisville, Kentucky.
	E.L. Crain MD	Tuxedo Sta. Tuxedo N.Y.
	Anthony J. Tabers M.D.	Tuxedo Sta Tuxedo N.Y.
	Ben Trubling TRUHLINGER SAMLOST	Roy Road N.Y.
	Salem Dawling, M.D. [illegible] M.D.	[illegible] Roy, N.Y.
	F.C. Kuppanna	Bangalore India
	Camila Monral	Roby Brook, N.Y.
	T. Emmett Kelly M.D.	St Louis MO.
	George E. Taylor	Sullivan Indiana, Hunga & Hay
	George P. Eddy M.D.	Niagara Falls N.Y.
	C. Otto Z Beckley M.D. LANSING	Milwaukee, Wis.
	Chas B. Towle	Paulia N.J.
	Walton B Rountree MD	Bham Alabama
	Gregg Tate	Bham Alabama
	E.E. Parker, Jr.	Bikam Alabama
	D.K. Stevenson	Hudson, Ohio
	Tom Tekulve	New York, N.Y.
	Eug Klein, M.D.	Cleveland, Ohio
	W.S. Hazard	Avon Illinois Glass Co Toledo O
	Marvin N. Amdur, MD	Blanchard Dr Detroit Mich.
	J.E. Kreezer	Warren Sta. Ohio 1-50
	E.J. Jones	univ hosp Ann Arbor Mich
	Willard MACHLE	Ft. Lauderdale, FLORIDA
	V.L. Zeiss M.D.	Saranac Lake, N.Y.
	Frank E. Wheeler	P.H.S. Washington D.C.
	C.B. Shreder	Marina Peninsula San St Calif. Anderso

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SEPTEMBER 22 - 26 1952

0017

ACCOMPANIED BY WIFE	REPRESENTING ORGANIZATION	WHERE REGISTERED	AUTO MOBILE
17, Calif. Ohio [illegible]			
No	[illegible]	Present	[illegible]
	Lung Division, G.E. Co.		
Yes.	755 Tonawanda St Buffalo 20 N.Y.	Saranac Inn	
–	[illegible]	Saranac Hotel	–
Yes.	Self	" "	
"	"		
	Public Health Service	Saranac Hotel	
No	[illegible]	Saranac Hotel	

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SEVENTH SARANAC SYMPOSIUM

DATE	NAME	MAILING ADDRESS
9-22-58	W M S Smith	477 First Ave. New York 16, N.Y.
	John B. Hanner	42 Berkeley St, Boston, Mass
	J. A. Lange	Room Lab. by
	P. A. Donahue	1336 Midland Bldg Cleveland O
	W. G. Hueper	8495 Rockville Pike, Bethesda Md
	Arnold P. Doppelt	420 Lexington Ave. New York 17, N.Y.
	Joseph A. Sullivan	175 Berkeley St, Boston, Mass.
	Clarke F. Whitney	55 E Washington St - Chicago Ill
	Donald D. Silverman	Trudeau, N.Y.
	Geoffrey L. Brewer	Trudeau N.Y.
	Ruth E. Albert	New York Operations Office AEC Box 30 Ext. Sta. NY
	Robert Welch	246 Rexcraft Bldg, Syracuse, N.Y.
	R. B. Sutherland	38 Hunter Ave. Dr. Toronto 13, Ont.
	Kenneth Hardy M.D.	Medical Dept. Maxwell Air Force Base
	Selma Eisenstaedt	U.S.A.E.C. New York, N.Y.
	H. Eastman M.D.	Eastman Kodak Co, Rochester, N.Y.
	Jean H. Stevens M.D.	" " " "
	Jane Hemsley Long M.D.	Temple Univ. Hosp. Phila. Pa.
	E. A. Cox M.D.	Cadillac Motor Car Div. G.M. - Detroit
	R. I. Reid Jr. M.D.	520 W. 7th Los Angeles Cal.
	H. E. Pollock	122 Grosvenor St. Jenkintown Pa.
	B. D. Cole	23 Commonwealth Ave Chestnut Hill Mass
	Donald Young Selander	Dept Physiological Hygiene Univ of Minn
	Robert P. Kehoe	Kettering Laboratory College of Medicine, Cincinnati, Ohio
	Jesse A. Jefferson M.D.	1124 No. 20th St Birmingham Ala
	Eugene Gregoire M.D.	Pneumoconiosis Institute, Superior, Wisc.
	L. D. Selby	1916 Military St. Port Huron, Mich
	H. J. McConnell	Production Dept Penna, Forks, N.J.
	A. J. Lanza	N.Y.U. Bellevue Med Center
	Emanuel Klein	10 Thornby Place or
	[illegible]	745 Huron Towers Blvd
9-23-58	Philip E. Smith	55 Hatteras St, Detroit
	Harry O. Whipple	Box 1663, Los Alamos, N. Mex
	C. W. Ramey	McCalla, Ala.
	David B. Dillehunt	City of Cleveland Hospital 3395 Scranton Rd.
	C. E. Waring	117 Lundridge Rd Belmont Mass
	Eugene Mossman	Denver Res. Inst. Denver, Colo.
	Philip Hyslop Jr.	Dept of Medicine U.C.L.A. Jamaica Blvd
	Gordon G. Gavin	39 Columbia St. Albany, N.Y.
	Irwin Kellenberger	202 E 78th St. New York 21, N.Y.
	Anna M. Baetjer	Johns Hopkins School of Hygiene, Baltimore
	Fisher Ben	Res. Lab. State Hospital, Topeka
	Frank T. Gilly	8 330 Avon Rd Oak Park, Ill.
	Edward Zabik Jr.	21 Hilltop Rd Carter Estates, Pittsburgh Pa

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ACCOMPANIED or BY WIFE	REPRESENTING ORGANIZATION	WHERE REGISTERED	AUTO-MOBILE
—	New York University	Hotel Saranac	—
No	American Mutual Liab. Ins. Co.	Hotel Saranac	Yes
Yes	Erie R.R. Co.	Hotel Saranac	
Yes	Nat. Cancer Inst.	Hotel Saranac	
yes	Lead Industries Assn.	" "	no
No	Liberty Mutual Insurance Co.	Berkeley Hotel	No
No	—	—	Yes
No	—		No
No	—		
Yes	AEC	H. Saranac	no
No	Lovelace Clinic	Regal Mot. Court	Yes
No	Ontario Division of Industrial Hygiene	Knoll's Motor Court	Yes
Combined with	Ohio Med. Chem., Ohio St. Hyg.	Main Lobby Lovelace Clinic	Yes
Yes	U.S. Atomic Energy Com.	Hotel Saranac	yes
Yes	Eastman Kodak Co.	Hotel Saranac	No
No	" " "	" "	Yes
No	Cadillac	" "	No
No	Self	Hotel Saranac	No
Yes	Sylvania		Yes
Yes	Arrow Mutual Ins. Co.		Yes
No	University of Toronto	Hotel Saranac	Yes
Yes	Friedman Diag. Clinic	Saranac Inn	No
Yes	Lovelace Institute	Saranac Hotel	Yes
No		" "	yes
No	Met. Life Ins. Co.	" "	No
No	408 Humboldt St. Bklyn N.Y.	Ampersand	No
yes	Self	Saranac Hotel	yes
Yes	Harvard Univ.		
No	Los Alamos Scientific Laboratory	Ampersand Hotel	No
Yes	Republic Steel Corp.	Saranac Hotel	Yes
No	Cleveland City Hospital	35 Church St	No
No		Saranac Inn	No
No	Stanford Univ.	Saranac Inn	No
Yes	Medical Res. Council of G.B.	Lodges c/o D. Wilson	No
—	N.Y. State Dept. of Health	Hotel Saranac	No
No	—	Saranac Hotel	No
No	Johns Hopkins School of Hygiene	Hotel Saranac	No
No	Samuel Austin C.	-	No
Yes	American Cancer Society	Knoll's	Yes

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SEVENTH SARANAC SYMPOSIUM

001722

DATE	NAME	MAILING ADDRESS
9/24	Donald A. Hayes	718 White Bldg Buffalo N.Y.
9/24	Wiseman Tinsley	P.O. Box 247 Tuskegee Institute Ala.
9/24/52	J. McGuire	Director Field Lab Princeville, C
	G. Richard O. Linde MIDDLE	National Cancer Inst. Bethesda 14 Md
	William A. Baum	National Cancer Inst. Bethesda Md
	Herbert T. Ashworth	4750 Sheridan Rd, Chicago, Ill
9/24/52	Rexford N. Berger	282 Delaware Ave, Buffalo N.Y.
9/22/52	Chas Lutter	Dept. of Medicine, Post Graduate Medical School, London W.C.
9/24	B.T. Mavrogano	112 State St. Albany, N.Y.
9-24	Paul K. REED	1435 K St, N.W. Washington D.C.
9/24	Alfred E. Vinn Watt	Imperial Paper Sales Corp New York
9/24	James L. Hill	616 N. Walnut St. Lansing 15, Mich
9/24	P.L. Dodrill m.d.	General Electric Co, Schenectady N.Y.
9-24	C.C. Gregoire	Bethlehem Mines Co, Johnstown Pa
9-24	Ralph P. Jones	1195 Pierce St Pittsfield Mass
9-24	Anderson J. Ford	296 h County Hampton Va
9/25	Herman J. Seifert	80 Centre St 60 East St, Port Washington, N.Y.
	Edward V. Ryder	105 E. 53 N.Y.C.
	Frank H. Brubaker	Bethlehem Steel Co Johnstown Pa
	S. R. Haun M.D.	55 John St. N.Y. 7. N.Y.
	Norman C. Tucker	1st Bank Bldg Utica N.Y.
	William T. Beale	" " " Utica Trust Bldg
	Andrew Gilmartin	60 John St, N.Y.C.
	Edward W. Kipper MD	16 Rucker St, Old Bethpage N.Y.
	Harold R. Peterson M.D.	2111 Genesee St Utica N.Y.
	Hal Barnes	P.O. Box 846 Rochester 3 N.Y.
	Paul N. Yee	Strong Memorial Hospital Rochester
	R.E. Nye Jr.	Strong Memorial Hospital Rochester N.Y.
	Wm. H. Epstein	" " "
	Howard A. Jones	Strong Memorial Hosp. Rochester N.Y.
	E. Delmar Peters Jr.	Trudeau N.Y.
	N. Chatelain NADINE CHATELAIN	Trudeau N.Y.
	Georges J. Kleinerman	New York N.Y.
	Frank H. Lovejoy Jr.	Strong Memorial Hosp. Rochester N.Y.
	G. Dunn	Trudeau Sch. Tuberculosis Trudeau N.Y.
	J.C. Foster	Trudeau Sch. Tuberculosis Trudeau N.Y.
	J.N. Bampton	Sunmount VA Hosp N.Y.
	Abner Lourau	Inspector of Labor
	William L. Connolly	U.S. Dept of Labor
	W.A. Hollingsworth	Associated Industries of N.Y. State
	Richard L. Kuntz Jr.	Trudeau Sanatorium Trudeau N.Y.
	W.E. McSmith	B.F. Goodrich Co. Akron, O.
	C. Drew Lawrence	1180 Raymond Blvd, Newark N.J.
	James Regan	165 Broadway Newyork City

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ACCOMPANIED BY WIFE	REPRESENTING ORGANIZATION	WHERE REGISTERED	AUTO MOBILE
	Laverack & Haines Jrs	Hotel Saranac	
	Quebec Asbestos Mining Ass	Hotel Alpine	Yes
Yes	Diamond Black Co, Runcorn, O	Gouthier	yes
no	Federal Bureau Institute	—	no
no		—	no
No	Fidelity Mutual Casualty Co.	Keenghs Motor Court	No
No	United Allied Foundries of N.Y.S.	Saranac Inn	Yes
No	Medical Research Council of G.B.		Yes
No	Laverack & Haines, Inc	Gouthiers	Yes
No	United Mine Workers Association	Gauthiers Cabins	yes
No	Ingersoll Paper + Cabin Corp	Keenghs Motel	yes
no	Workmens Compensation Commission	Hotel Saranac	no
yes	C.E. Co	Mirror Lake Inn	yes
No	Bethlehem Steel Co.	Hotel Berkley	no
No		Indian Inn	No
no		Andrews Inn	no
No	N.Y. State Workmen's Comp. Board	Keenghs Hotel	Yes
No		Hotel Saranac	No
No	Bethlehem Steel Co.	" "	No
no	Travelers Ins Co.	Wawbeek Cottages	no
No	Utica Mutual Ins Co.	Lake Placid Club	No
no	" " " "	Lake Placid Club	no
no	Assoc of Casualty + Surety Co.	Saranac Hotel	no
NO	Medical College U.S.C.	" "	"
Yes	Utica Mutual Ins Co.	Lake Placid Club	Yes
Yes	Maryland Casualty Co.	Hotel Saranac	yes
Mr. N.Y. no	University of Rochester	Dana Stevens motel	yes
No.	U. of Rochester	" " "	Yes
"	"	" " "	"
Yes	University of Rochester	Dana Stevens Motel	Yes
	Trudeau San		
	Trudeau Foundation		
	The State Ins. Fund	Gauthier Cottages	Yes
	U of Rochester	Dana Stevens Motel	Yes
No	Employers Fire Co.	—	Yes
No	Travelers Fire Co.	—	Yes
Yes	Quebec Asbestos Producers	Saranac Hotel	yes
No	Bureau of Labor Standards	Univ. of Quebec Washington D.C.	Yes
No.	B.F. Goodrich Co.	Saranac Hotel	No
Yes	N.J. Zinc Smelters Assn.	Lake Placid Club	yes
Yes No	State Bureau Associations (NY)	Saranac Inn	Yes

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SEVENTH SARANAC SYMPOSIUM

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DATE	NAME	MAILING ADDRESS
9/25	H. Dudley Bierau	Alco - Schenectady N.Y.
9/26	Daniel C. Braun	4400 5th Ave. Pittsburgh Pa
	Samuel C. McGregor M.D.	905 Market St. Wilmington Del
9/24	F. H. Kearman	Alco Schenectady N.Y.
9/26	E. W. Saenisch	Alco Schenectady N.Y.
9/26	C.R. Sgarlato	Alco Schenectady N.Y.
9/26	E. Marshall	St Joseph Lead Co Bartlett N.Y.
	A.J. Reslan	Saranac Lab. Saranac Lake N.Y.

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ACCOMPANIED BY WIFE	REPRESENTING ORGANIZATION	WHERE REGISTERED	AUTO-MOBILE
Yes	American Locomotive Co	Saranac Inn	Yes
No	Industrial Hygiene Found.		
Yes	Hercules Powder Co.	Saranac Hotel	Yes
NO	AMERICAN LOCOMOTIVE		
No	American Locomotive		
No	American Locomotive		Yes
no	H. Jaffe Coal Co		

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