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Surgeon, US Bureau of Mines

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OF
WISCONSIN

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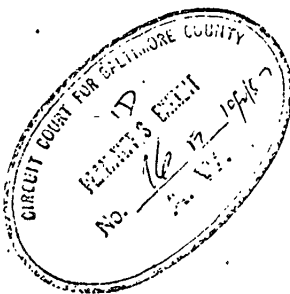
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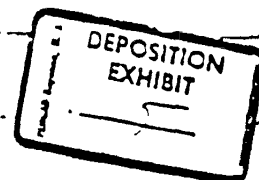
HARRY A. NELSON, *Director of Workmen's Compensation*

Proceedings of Conference Concerning

EFFECTS OF DUSTS UPON
THE RESPIRATORY
SYSTEM



Held at Medinah Athletic Club, Chicago
November 16-17, 1932



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Dr. Albert E. Russell, Surgeon, U.S.
Bureau of Mines

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This man was a slate worker. His history is that he lived in the area of this slate and that for most of his life, aside from farming, that had been his sole occupation. The slate workers in one plant which we observed were not exposed to any quartz. The plant adjacent to this mill had about 37% quartz in the slate it used. You will note in considering slate that the silica content of slate varies in different areas so we can't say that slate has a definite amount of silica without determining it first. The same holds true for granite. There are certain granites which have much less than 35%. I think most of the Vermont granite contains about 35% quartz. You can see the futility of trying to compare X-rays of the lungs from workers in one industry to those of another.

This is an X-ray of a slate miller. You will notice he has a few pulmonary markings, with quite a bit of fine linear fibrosis. We found in the group of slate miller workers one case who had an active tuberculosis. He had been in this slate mill about six years and apparently the tuberculosis was just incidental and not a result of his occupation.

Other slate workers showed hilus thickenings with a few calcifications. Still other slate workers showed a different picture but not extensive pathology.

This is an X-ray of another slate worker showing quite a bit of shadows in the lower portion of the right lung with a few calcifications.

This is the X-ray of a man who had, or has, asbestosis. His occupation was that of cleaning and restoring the asbestos on pipes in one of our government hospitals. He had been working at the trade about six years, I think, and you will see, he has fibrosis of both lungs. The character of the fibrosis is quite a bit different from that of the granite workers. He had disability and the government compensated him for it.

This is a graph showing classification of silicosis. The first classification was made in South Africa. They started out classifying their cases as primary and secondary stages, and as they learned more about the disease they had to add to this classification. They learned that they had a stage earlier than primary and it was called ante-primary,

and as it was they called it that "then" chest of the and there was the average placed in the case as having crisis, their compensation and This is the one

In Australia. They called it Dr. Moore's more fibrosis tuberculosis, or he dust. The advanced cases phases. At classification recommended. The written into it they said a should be added stages design fibrosis than recommended. stages would first stage of considered as

This slide come under the ever, the dense stage, but you indicating that the lung. He States Government eight years. masks. He which were going in the same

which position he held until 1919. He then entered the employment of the United States Public Health Service as a member of the Staff of Service, Hospital No. 26, at Greenville, South Carolina, where he remained in service, specializing in the treatment of tuberculosis during 1920 and 1921. From 1922-23, inclusive, Dr. Russell acted as Assistant Chief of the Tuberculosis Hospital Section of the U. S. Veterans' Bureau. From 1924-30 he was in charge of field studies as to the health of workers in dusty trades for the United States Public Health Service. In 1930 he was appointed as official representative of the United States at the International Silicosis Conference at the League of Nations at Johannesburg, South Africa, of which he acted as Vice-Chairman. In 1930 he became Chief Surgeon of the U. S. Bureau of Mines.

Dr. Russell has made numerous contributions to medical magazines, and has written many reports for the U. S. Public Health Service, covering particularly the field of pulmonary diseases and more specifically those diseases resulting from the inhalation of dust.

LIST OF PERSONS
CERNING EFFECT
SYSTEM FIELD
SION OF WISCONSIN
BER 16 17, 1932

Name	Office
Anderson, A. A.	Chief
Atkinson, F. L.	Miss
Augie, R. A.	Mon
Bailey, Dr. A. L.	Miss
Beknap, E. L. M. D.	M
Bell, Dr. G. L.	Was
Berlin, Dr. D. S.	Chief
Bier, E. J.	Kohl
Blumfeld, J. J.	Was
Britton, Dr. J. A.	Chief
Brown, Wm. E.	Miss
Clark, Dr. W. Irvine	Was
Cottingham, M. D.	Kohl
Cummings, D. E.	N. N.
DeBlois, Lewis	New
Dickson, L. H.	Chief
Dobbins, Dr. Thom.	Ken
Doe, Arthur B.	235 N. 24
Earlywine, J. L.	Chief
French, G. E.	Chief
Ford, Dr. W. H.	Miss

California

N. Dakota

Connecticut

Mass

Wise

and all states

of Congress in 1932 and
before.

Would this report cover the same as the report of the committee?

Appendix B

LIST OF PERSONS WHO ATTENDED CONFERENCE CONCERNING EFFECTS OF DUSTS UPON THE RESPIRATORY SYSTEM HELD BEFORE THE INDUSTRIAL COMMISSION OF WISCONSIN AT CHICAGO, ILLINOIS, ON NOVEMBER 16-17, 1922

Name	Address	Profession	Business Connection
Andrews, Ara A.	Chicago, Ill.		Lumbermens Mutual Casualty Co.
Atkinson, F.	Milwaukee, Wis.		Liberty Mutual Casualty
Augst, R. A.	Montreal, Wis.		Montreal Mining Co.
Banyai, Dr. A. L.	Milwaukee, Wis.	Physician	Clinic Director, Municipal San.
Belknap, E. L. M. D.	231 W. Wis. Ave. Milwaukee, Wis.	Medical Director	Globe Union Mfg. Co.
Bellis, Dr. G. L.	Wauwatosa, Wis.		Supt. Municipal San.
Berlin, Dr. D. S.	Chicago, Ill.		Augustine Hosp.
Blewer, E. J.	Kohler, Wis.	Mech. Engineer	Kohler Company
Bloomfield, J. J.	Washington, D. C.		U. S. Public Health Service
Britton, Dr. J. A.	Chicago, Ill.	Medical Director	International Harvester Co.
Brown, Wm. E.	Milwaukee, Wis.	Lawyer	Allis-Chalmers Mfg. Co.
Clark, Dr. W. Irvine	Worcester, Mass.	Physician	Norton Company Harvard School
Cottingham, M. D.	Kohler, Wis.	Medical Director	Kohler Company
Cummings, D. H.	Saranac Lake, N. Y.	Ass't Director	Saranac Lab.
DeBlois, Lewis	New York, N. Y.		
Dickson, L. E.	Chicago, Ill.		Standard Equipment Co.
Dobbins, Dr. Thos.	Kenosha, Wis.		Nash Motors Co.
Doe, Arthur B.	825 N. Broadway, Milwaukee, Wis.	Lawyer	Employers Group
Earlywine, J. L.	Chicago, Ill.		
French, G. E.	Chicago, Ill.		Liberty Mut. Cas.
Ford, Dr. W. B.	Milwaukee, Wis.	Physician	Ass't Chief T. B. Div. Health Dept.

Name	Address	Profession	Business Connection	Name
Gandrey, Alfred R.	Milwaukee, Wis.	Lawyer	Ass't City Atty.	Guillert, F.
Nowak, C. A.	Chicago, Ill.		Ill. Indus. Com.	Guire, Peter, Jr.
O'Malley, Dr. T. S.	225 W. Wis. Ave., Milwaukee, Wis.	Surgeon		Habbe, Dr. J. E.
Ogden, Dr. C. H.	Chicago, Ill.		Ill. Steel Co.	Hensel, H. G.
Otjen, C. J.	Milwaukee, Wis.	Attorney	Liberty Mutual Ins. Co.	Huth, Gordon C.
Parrish, L. J.	Milwaukee, Wis.		A. O. Smith Corp.	Ireland, Walter
Pierpont, Dr. D. C.	Ironwood, Mich.		Piekanda, Mather Co.	Janzer, W. W.
Raid, M. A.	Hurley, Wis.		Montreal Mining Co. & Odanah Iron Co.	Knutson, R. G.
Reynolds, Paul F.	Cleveland, Ohio		Montreal Mining Co.	Kucenie, S. E.
Ringo, Dr. H. F.	Montreal, Wis.		Montreal Mining Co.	Kuhn, Dr. Leroy P.
Russell, Dr. A. E.	Washington, D.C.	Surgeon	U. S. Public Health Service	Lavich, J. L.
Sander, O. A.	800 Empire Bldg., Milwaukee, Wis.		Employers Mut.	Lotz, Oscar
Sappington, Dr. C. O.	Chicago, Ill.	Consultant Ind. Med.		McIntyre, M. D.
Schlomvist, W. Benj. H.	210 Empire Bldg., Milwaukee, Wis.	Internist		McLaren, Dr. J. B.
Sexton, James M.	Milwaukee, Wis.		Employers Mut.	Mellum, H. J.
Story, H. W.	Milwaukee, Wis.		Allis-Chalmers Mfg. Co.	Miloslavich, Dr. Edw. L.
Tarrell, L. A.	Milwaukee, Wis.	Attorney		Nelson, Harry A.
Tharinger, E. L.	Milwaukee, Wis.	Pathologist		Wrabetz, Vayta
Warfield, Dr. Louis M.	Milwaukee, Wis.	Internist		Wright, C. B.
White, Wm. W.	Cleveland, Ohio		Montreal Mining Co.	Zinn, R. F.
Wilcox, F. M.	Madison, Wis.	Chairman	Wis. Indus. Com.	
Wills, H. S.	Detroit, Mich.		Detroit Public Health Dept.	
Goldschmidt, W. J.	Milwaukee, Wis.	Attorney		
Graves, Dr. S. S.	Chicago, Ill.	Medical Director	Ill. Indus. Com.	
Gray, A. W.	324 E. Wis. Ave., Milwaukee, Wis.	Medical	Private Practice	

Name	Address	Profession	Business Connections
Guillert, F.	Chicago, Ill.		Eye Shield Co.
Guire, Peter, Jr.	Chicago, Ill.	Commissioner	Ill. Indus. Com.
Habbe, Dr. J. E.	Milwaukee, Wis.	Röntgenologist	
Hensel, H. G.	Chicago, Ill.	Safety Director	Youngstown Sht. & Tube Co.
Huth, Gordon C.	Chicago, Ill.		Universal Atlas Cement Co.
Ireland, Walter	Kohler, Wis.	Employment Mgr.	Kohler Co.
Janzer, W. W.	Milwaukee, Wis.		Seaman Body Corp.
Knutson, R. G.	Madison, Wis.	Member	Wis. Indus. Com.
Kuechle, B. E.	Box 32, Wausau, Wis.	Insurance	Employers Mut.
Kuhn, Dr. Leroy P.	Chicago, Ill.		Lumbermens Mut. Cas. Co.
Lavich, J. L.	Chicago, Ill.		Lumbermens Mut. Cas. Co.
Lotz, Oscar	324 E. Wis. Ave., Milwaukee, Wis.	Medical	Private Practice
McIntyre, M. D.	Cleveland, Ohio		Pickands, Mather Co.
McLaren, Dr. J. B.	Appleton, Wis.	Physician	Chief Surgeon, Kimberly-Clark Corp.
Mellum, H. J.	Kenosha, Wis.		Nash Motors Co.
Miloslavich, Dr. Edw. L.	Milwaukee, Wis.	Pathologist	
Nelson, Harry A.	Madison, Wis.	Director, Work- men's Comps.	Wis. Indus. Com.
Wrabetz, Voyta	Madison, Wis.	Memoer	Wis. Indus. Com.
Wright, C. B.	Minneapolis, Minn.	Internist	
Zinn, R. P.	Ironwood, Mich.		Pickands, Mather Co.