

a different location in the plant. Compressed air is used to blow the cement from the storage silos directly into the tank road vehicles or rail-car tankers through a 3-inch diameter flexible pipe. Details are given of the cleaning equipment which is in current use in cement works in the United Kingdom and abroad.

-- APCA Abstr.

- 750 Bagassosis: A True Pneumoconiosis. H. A. Bachner.
Ind. Med. & Surg. 11, 311-112 (July 1952).

Since 1937, when bagassosis was first recognized as an occupational disease, a number of important questions pertaining to this disorder have gone unanswered. Is bagassosis associated with permanent damage to the lungs? Does residual functional disability follow? Should the disease be classified as a true pneumoconiosis and is it an industrially compensable condition? This paper presents an analysis of existing information on the subject derived from autopsy findings, lung biopsy specimens, persistent radiographic changes and pulmonary function testing. On the basis of this evidence, it is concluded that all of the above questions should be answered in the affirmative.

-- Author's summary

- 751 The Extent of Pneumoconiosis and the Course of Its Development among Miners in a Coal Mine. W. Zakorski, A. Kucinska and K. Marzec. Med. Pracy 10(2) 11, 425-431 (1955).

An investigation into the incidence and severity of pneumoconiosis has been made on the basis of clinical and x-ray records of 1,351 miners in a coal mine in Poland who were suspected of suffering from silicosis. The observations covered a period of 12 years, and the degree of pneumoconiosis found was recorded on the basis of the Geneva classification. Of the miners examined 15.1% had suspected and 11.8% had undoubted pneumoconiosis. Grade m occurred in 16.4%, n in 2.7%, ABC in 1.5%, and p in 1.3%. Tuberculosis was present in 10.7% of workers free from pneumoconiosis and in 11.5% of the remainder. Respiratory insufficiency was present in 5.7% of those free from pneumoconiosis and in the remainder it ranged from 12.7% in the mild forms to 28.4% in those with the most extensive involvement. Pneumoconiosis of grade 2 appeared after an average period of 15 years of work in the mine, grade m after 20 years and grade ABC after 25 years.

-- Bull. Hyg.

- 752 Occupational Health Study of the Manufacture of Ferroaluminum (Ferrosilicon). J. Banaagi. Munkavetelen (Budapest) 11, 11-16 (1961).

Silicosis is a widespread occupational health problem in Hungary (Bull. Hyg. 36, 665 (1961)). The author revealed the high incidence of silicosis in the manufacture of ferroaluminum. Silicosis was present in 33.3% of the workers exposed to dust. Ferroaluminum is produced when quartz, coal and iron ore are heated at 1,500°C. From stone-crushing to the cleaning room nearly every process is connected with dust exposure. The highest dust concentration measured with the komometer was found at the stone crushing (1,245-1,470 particles per ml.) and at sieving the quartz for making ingot molds (1,155-1,181 particles per ml.). In the case of the furnaces, 326-516 particles per ml. were measured when the furnace was charged and 15-3,110 particles per ml. when the metal was poured. The free silica content of the dust varied from 33 to 70%, and more than 40% of the particles were less than 3.6 microns in size. According to the exposure, the silicosis developed rapidly. The average number of years before the appearance of radiological silicosis was less than 1 in the case of stone crushers, furnacemen, transport workers, fettlers and mechanics.

-- Bull. Hyg.

- 753 Analysis of the Lipids in Experimental Silica-Induced Lesions and Chemical Reactions by Means of Phospholipids Extraction from Mouse Lesions. A. Ginet and M. Ginet-Montesart.
Rev. Franç. Etude Chim. Biol. 2, 11-16 (Nov. 1961). French. Revue Française d'Etude Chimique et Biologique, Équipes Médicales, Pharmaceut. 21 rue de Valenciennes, Paris 5, France.

Lipids were estimated chemically and histochemically in lesions produced in rats by injection of quartz into the peritoneal cavity or into the lungs. The lipid fractions that were estimated at the same time as the collagen were neutral fats, phospholipids, free and total fatty acids.

* Address not in current list of Periodicals.