Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney W...
ACL Doc 24874 · Page 1 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
Nonoccupational mesothelioma	1921	E.A. Wood and A.L. Walter, Primary mesothelioma of the pleura -- With report of a case, Journal of the Missouri Medical Association 18:277-281, August [#3133].	Case report of mesothelioma in 45-year-old male public school teacher; no discussion of etiology. Notes controversy as to proper classification of this type of tumor and that it is often reported as an endothelioma.
Asbestosis	1932	B. Gordon, Jr., Pulmonary asbestosis, Pennsylvania Medical Journal 35:637-639, June [#3208].	Case report of janitor diagnosed with asbestosis at autopsy. Patient had been employed, however, in asbestos mine at one time.
England; asbestosis; product use	1932	Memorandum on the Industrial Diseases of Silicosis and Asbestosis; London: H.M. Stationery Office [#3053].	Among the industries and processes listed in which asbestosis occurs is "the sawing, grinding and turning in the dry state of articles composed wholly or partly of asbestos such as motor car brake and clutch linings, electric conductors and packings and jointings."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney W...
ACL Doc 24874 · Page 2 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1933	P. Ellman, Pulmonary asbestosis: Its clinical, radiological, and pathological features, and associated risk of tuberculous infection, Journal of Industrial Hygiene 15(4):165-183, July [#3046]. Similar information published by Ellman in British Journal of Radiology 7:281-295, 1934 [#3228].	Author has seen 17 definite cases of asbestosis in England, in one of which the patient "had been exposed to asbestos dust for 10 years; but the work, which consisted in coating lead pipes, did not entail high dust concentrations."
X-ray abnormalities; product use	1933	E.R.A. Merewether, A memorandum on asbestosis, Tubercle 15:69-81, November, and 15:109-118, December [#3048].	Describes lung changes in workers using 85% magnesia insulation, which are "totally distinct from either typical silicosis or typical asbestosis and from appearances intermediate between the two. It is impossible to say what the underlying lung lesion may or may not be, as no autopsy findings are available."
Asbestos in buildings; insulators; asbestosis	1933	A.E. Russell [untitled address], Proceedings of Conference Concerning Effects of Dusts upon the Respiratory System; Madison, WI: Industrial Commission of Wisconsin, pp. 167-207 [#3049].	Case of asbestosis in pipe insulator in U.S. Government hospital who received compensation from the government.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney W...
ACL Doc 24874 · Page 3 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Product use	1934	Asbestos, Industrial Bulletin 13:95, April [#3179].	Cautions manufacturers and handlers of asbestos products to prevent "trouble," because disease from breathing asbestos dust can be prevented, but there is no cure.
Insurance industry; asbestosis; product use	1934	R.N. Gray, Asbestosis, Attorney's Textbook of Medicine; Albany, NY: Matthew Bender & Company, pp. 27-38 [#3035].	Written by Surgical Director, Aetna Life Insurance Company. Implies asbestos products are not harmful if dust is not liberated. Estimates asbestos threshold level to be 13.5 mppcf.
Asbestosis; household exposure	1934	G. Quarelli and A. Velicogna, Tracheite da asbesto, La Medicina del Lavoro 25:218-223.	A case report of disease in an Italian asbestos textile worker. Advises all asbestos workers to wear a uniform to prevent their carrying back to their homes any dangerous particles.
Asbestosis; pleural cancer	1934	W.B. Wood and S.R. Gloyne, Pulmonary asbestosis: A review of one hundred cases, Lancet 2:1383-1385, December 22 [#3043].	Majority of cases were in British asbestos factory workers, but cases also included owner of a small factory, "van boy" who mixed powdered asbestos, a boiler riveter in a shop where asbestos was used for lagging pipes, and a man employed in handling asbestos mattresses at an airfield. The 12 deaths included "2 with carcinoma of the lung and 1 with a few deposits of growth in the pleura."
Roofing workers	1935	Industrial hygiene problems in a typical industrial area, Monthly Labor Review 41(1):79-82, July.	Reports on industrial hygiene surveys of over 600 plants undertaken by U.S. Public Health Service in 1934. "Roofers were especially exposed to asbestos dust."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney W...
ACL Doc 24874 · Page 4 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1935	R.C. Page, A study of the sputum in pulmonary asbestosis, American Journal of Medical Science 189:44-45, January [#3014].	Studied 38 cases of disease in asbestos factory workers, 11 of whom died. Several of the cases were in office workers in the factory.
Fiber release; product use	1935	R.C. Stratton, Origin and sources of toxic dusts from various industries, Safety Engineering 69(1):39-42, January. Similar information published in Mechanical Engineering 57:95-98, 1935 [#3020].	"Crushing and grinding of asbestos products generates dust."
Asbestosis	1936	D. Hunter, Occupational Diseases; London: H.K. Lewis & Co. [#2973].	A compilation of lectures; third lecture discusses silicosis and asbestosis. Of 37 asbestos workers with asbestosis, one case had occurred in a storekeeper in an asbestos plant and another had been a machinist.
Asbestosis; product use; welding	1936	C.J. Jacobson, A case of acute asbestosis, Hospitalstidende 79:864, August 18 [#2976].	Report of asbestosis in a 25-year-old machine worker, who used asbestos-covered electrodes in welding.
Product use	1936	E. Mayer and W. Grethmann, Silicosis: Some differential diagnosis problems, American Review of Tuberculosis 33:313-321, March [#2965].	Describes disease in "a cutter and sizer of asbestos-containing paper box boards," but authors do not know if it is silicosis or asbestosis.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney W...
ACL Doc 24874 · Page 5 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1936	H.C. Sweaney, J.D. Porsche and J.R. Douglass, Chemical and pathologic study of pneumoconiosis, with special emphasis on silicosis and silicotuberculosis, Archives of Pathology 22(5):593-633 [#2986].	Cases of "pneumoconiosis without silicotic fibrosis" studied by authors include a machine worker "in a room in which asbestos was handled and in which the air was reputed to contain much dust."
X-ray abnormalities	1938	E.R.A. Merewether, Dusts and the lungs, with particular reference to silicosis and asbestosis, Medical Press and Circular Supplement 3:11-17, July 20 [#2911].	Lung changes in mixer of boiler insulating materials are intermediate between those of silicosis and asbestosis.
Railroad workers; paper and pulp workers	1938	N.D. Tillson, R.T. Homewood and H.J. Worsham, Evaluation of the Industrial Hygiene Problems of Virginia; Richmond, VA: Virginia State Department of Health Bureau of Industrial Hygiene.	Survey of Virginia industries estimates that 350 workers in the state are exposed to asbestos dust, primarily in car and railroad shops, iron and steel industry and in paper and pulp industry.
Product use; asbestos cement	1939	E.W. Baader, Asbestose, Deutsche Medizinische Wochenschrift 65(11):407-408, November.	Sawing asbestos-cement construction panels and finished asbestos is a source of dust.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney W...
ACL Doc 24874 · Page 6 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Sprayed asbestos; insulators	1955	A.I.G. McLaughlin, The dust diseases in Great Britain, Archives of Industrial Health 12:83-98 [#1872].	Notes cases of asbestosis appearing in workers lagging pipes and boilers with asbestos. States it is difficult to apply adequate protective measures, particularly if asbestos is being sprayed, because workers are usually peripatetic.
Neighborhood exposure; asbestos air pollution	1958	A.T. Bobyleva, R.M. Bukhantseva, S.E. Loutsova and M.S. Sadilova, [The amount of dust in residential districts of the city of Asbest and its effect on the children's health], Gigiena i Sanitariia 23(11):9-12 [Source I; #4881].	
Sprayed asbestos; insulators; asbestosis	1960	A. Ahlmark, T. Bruce and A. Nystrom, Asbestosis, Silicosis and Other Pneumoconioses in Sweden; Stockholm: Scandinavian University Books, pp. 353-357 and pp. 392-399 [Source B; #1593].	Many operations involving use of asbestos, particularly spraying, are very dusty. Reviews 11 cases of asbestosis observed by authors up to 1956, 8 of which were insulators and 1 worked in spraying.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney W...
ACL Doc 24874 · Page 7 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution; pleural plaques	1960	R. Kiviluoto, Pleural calcification as a roentgenologic sign of non-occupational endemic anthophyllite-asbestosis, Acta Radiologica Supplement 194:5-67 [#1600].	Report on 126 cases of pleural calcification with no clinical symptoms of pneumoconiosis and no history of occupational exposure to dusts. At least 800 cases found in area around anthophyllite asbestos mines in Finland. Clinical significance of pleural calcification seems to be slight. Concludes plaques were due to community inhalation of dust originating from mines although no surveys were made of dust content of air.
Neighborhood exposure; nonoccupational mesothelioma; fiber type	1960	J.C. Wagner, C.A. Sleggs and P. Marchand, Diffuse pleural mesothelioma and asbestos exposure in the North Western Cape Province, British Journal of Industrial Medicine 17:260-271 [#1607].	Describes 33 cases of diffuse pleural mesothelioma. All but one case had probable exposure to crocidolite asbestos and in majority, exposure was of environmental nature from living in neighborhood of asbestos mines. By end of June 1960, total of 47 cases of mesothelioma identified, in 45 of which a possible association with crocidolite exposure had been established.
Sprayed asbestos; dust counts; fiber release	1962	M. Sheinbaum, Some health hazards associated with the building trades, American Industrial Hygiene Association Journal 23(5):353-358, September-October [Source G; #4316].	High dust counts from asbestos-spray operations were obtained by New York State Department of Labor Division of Industrial Hygiene (average dust count in breathing zone of operator about 200 mppcf). Because asbestos-containing finishes are soft and friable, they are limited to use in areas where they may be protected by either their inaccessibility or additional coverings.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney W...
ACL Doc 24874 · Page 8 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings	1962	J.G. Thomson, Mesothelioma of pleura or peritoneum and limited basal asbestosis, South African Medical Journal 36:759-760, September 8 [#1586].	Reviews seven cases of mesothelioma. Asbestos is present in a home from the roof all the way to the basement. Although the home hazard from asbestos may be theoretical rather than practical to the occupant, it may not be so to the builder. Concludes that while number of cases of classical asbestosis may not significantly increase, there may be marked increases in cases of limited basal asbestosis.
Neighborhood exposure; asbestosis	1962	F. Wagler, H. Mueller and M. Anspach, [Is there an endemic asbestos?], Zeitschrift fuer die gesamte Hygiene und ihre Grenzgebiete 8(4):246-255, April [Source I; #4850].	
Sprayed asbestos	1963	A.E. Huestis, Spraying of asbestos, Michigan Occupational Health 8: 3-5.	
Asbestos in buildings; dust counts	1963	G.L. Leathart and J.T. Sanderson, Some observations on asbestosis, Annals of Occupational Hygiene 6(2):65-74, April-June [Source B; #1568].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney W...
ACL Doc 24874 · Page 9 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; asbestos air pollution; body burden	1963	J.G. Thomson, R.O. Kaschula and R.R. MacDonald, Asbestos as a modern urban hazard, South African Medical Journal 37(3):77-81, January 19 [#2632].	Reports increase in asbestos bodies in smears from lung bases taken during 500 consecutive autopsies in Cape Town, and that increase in frequency of basal asbestosis is probable. States that basal asbestosis appears to be of etiological significance in mesothelioma of pleura or peritoneum and forecasts increase in that tumor. Notes asbestos products in the home (e.g., floor tiles) may be subject to wear and liberation of asbestos fibers, but states that under ordinary conditions, it would seem unlikely that many asbestos fibers are inhaled in the average home. Suggests air of the street is a more probable source of fibers (e.g., from motor vehicle brake linings and natural weathering of asbestos-cement roofing).
Nonoccupational mesothelioma	1964	D.O'B. Hourihane, The pathology of mesotheliomata and an analysis of their association with asbestos exposure, Thorax 19(3):268-278, May [#1561].	Summarizes pathology of 34 cases of pleural and peritoneal mesothelioma. Confirms association of tumors with asbestos bodies in lung tissue. States that many of the cases gave no history of industrial exposure and that temporary or relatively trivial exposure to asbestos may have occurred, but does not describe such exposures.
Asbestos air pollution; body burden	1965	D. Cauna, R.S. Trotten and P. Gross, Asbestos bodies in human lungs at autopsy, Journal of the American Medical Association 192:371-373, May 3 [#4317].	Finds from study of 100 routine autopsy cases in Pittsburgh that asbestos bodies are commonly encountered in human lungs and suggests that studies of asbestos as an atmospheric pollutant be extended.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 10 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings	1965	W.C. Hueper, Occupational and nonoccupational exposures to asbestos, Annals of the New York Academy of Sciences 132:184-195, December [#2502].	Notes that use of asbestos insulation in homes may create asbestos health hazards for inhabitants.
Nonoccupational mesothelioma; neighborhood exposure	1965	M.L. Newhouse and H. Thompson, Mesothelioma of pleura and peritoneum following exposure to asbestos in the London area, British Journal of Industrial Medicine 22:261-269 [#1535 and #1536]. Published in shortened form in Annals of the New York Academy of Sciences 132:579-588, December 1965.	Reports on 83 cases of mesothelioma, in 76 of which full occupational and residential histories were obtained. Finds that 23 had factory exposure, 8 were insulators, 9 had domestic exposures (family members of asbestos worker) and 11 lived within 1/2 mile of asbestos factory (neighborhood exposure). States there was no evidence of any exposure to asbestos in 25 patients, and that asbestos bodies in lungs were found in only 4 of this group, so it seems probable that there were those who had had no exposure to asbestos.
Asbestos in buildings	1965	M.V. Raymond, [Asbestos in building and public works], Archives des Maladies Professionnelles 26(3):166-168, March [Source G; #4318].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 11 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; body burden	1965	J.G. Thomson, Asbestos and the urban dweller, Annals of the New York Academy of Sciences 132:196-214, December [#2511].	Reports on asbestos bodies found in lungs at 500 consecutive autopsies in both Cape Town, South Africa, and Miami, Florida. Discusses possible sources of asbestos fibers in the home and city air. States that asbestos ceilings, if painted and properly maintained, are unlikely to discharge asbestos fibers, but asbestos floor tiles, even if polished, are subject to wear and the liberation of asbestos. Comments on health effects are similar to those in previous papers (1962 and 1963, above).
Asbestos air pollution; body burden	1966	L. Anjilvel and W.M. Thurlbeck, The incidence of asbestos bodies in the lungs at random necropsies in Montreal, Canadian Medical Association Journal 95:1179-1182, December 3 [Source G; #4320].	Finds that the high incidence of asbestos bodies in a random series of autopsies suggests that asbestos is a significant air contaminant in Montreal. Concludes, however, that since asbestos bodies are not more common in patients with malignant disease in the autopsy populations studied, casual exposure to asbestos is not an important cause of malignancy in the general population.
Asbestos in buildings	1966	Asbestos: Awaiting "trial," Chemical Week 99(11):32, September 10, and rebuttal letters from Roger Hackney, Johns-Manville, and Murray C. Brown, M.D., U.S. Public Health Service, 99(15):7, October 8 [#4321].	Notes that while the average asbestos worker is well protected, the man on the street is not. States that 40 percent of all Americans have mild, chronic cases of asbestosis. Table listing sources of airborne asbestos includes asbestos-lined ducts used in centrally air-conditioned buildings, asbestos ducts and insulation in home central-heating plants, and asbestos ceiling and floor tiles. Hackney replies there are no data that the sources of airborne fiber listed contribute asbestos to ambient air, and Brown refutes 40 percent figure of mild asbestosis in American population.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 12 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1966	Asbestosis in urban populations, Journal of the American Medical Association 196(8):732-733, May 23 [#4322].	Discusses report by Thomson and Graves (below). Notes that young urban dweller has exposure of a lifetime before him and that urban air contamination by asbestos will continue to increase. States that what is not known is just how much asbestos must be present before malignant mesotheliomas result.
Asbestos in buildings	1966	P.C. Elmes, the epidemiology and clinical features of asbestosis and related diseases, Postgraduate Medical Journal 42:623-635, October [#1498].	Discusses diseases due to asbestos exposure and notes that some occupational groups are not sufficiently covered by protective measures, e.g. insulation workers and other building trades. States most asbestos materials are coated with paint or sandwiched between other material and do not present continuing risk until building is demolished, but certain uses such as lining of air-conditioning ducts with soft asbestos and use of unsealed ceiling tiles cause continuous pollution of air of office and factory buildings where people work all day. Finds degree of exposure in many cases of mesothelioma is slight and forecasts increase in number of cases in next 30 years, although elimination of crocidolite from commercial use might considerably reduce incidence of tumor.
Nonoccupational mesothelioma	1966	C. Gold and J. Cuthbert, Asbestos -- A hazard to the community, Public Health 80(6):261-270 [#1500].	Reviews 21 cases of lung pathology, including 5 mesotheliomas, found eventually to be associated with occupational asbestos exposure. Notes difficulties due to "patient error" in that patient may not remember past short exposures to asbestos or know that occupation involves exposure to asbestos. Views increased uses of asbestos as of great public health importance.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 13 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution; pleural plaques	1966	D.O'B. Hourihane, L. Lessof and P.C. Richardson, Hyaline and calcified pleural plaques as an index of exposure to asbestos; a study of radiological and pathological features of 100 cases with a consideration of epidemiology, British Medical Journal 1:1069-1074, April 30 [Source G; #4707].	Reports on 56 cases in which pleural plaques were found at autopsy and 50 cases in which pleural calcification was seen on x-ray examination. Notes close association between exposure to asbestos and development of pleural plaques. Suggests findings reflect widespread nonindustrial community exposure to asbestos.
Nonoccupational exposure	1966	W.C. Hueper, Occupational and Environmental Cancers of the Respiratory System; New York: Springer-Verlag.	
Pleural plaques; body burden	1966	L. Meurman, Asbestos bodies and pleural plaques in a Finnish series of autopsy cases, Acta Pathologica et Microbiologica Scandinavica Supplement 181:7-107 [#4323].	Discusses occurrence of asbestos bodies in lungs and pleural plaques in 438 autopsies in Finland. Concludes a causal relationship between exposure to asbestos dust and formation of bilateral pleural plaques may exist, but notes that plaques seem to be of no significance from standpoint of individual health. Notes allegation that even small amounts of asbestos may cause malignant diffuse mesothelioma. Finds that if that is true, development of such malignancy as result of slight exposure seems to be relatively rare since not a single mesothelioma was encountered in present study.

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PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution; body burden	1966	J.G. Thomson and W.M. Graves, Jr., Asbestos as an urban air contaminant, Archives of Pathology 81:458-464, May, and rebuttal letter from Paul Gross, 82:195, August [Source I; #4717].	Reports on asbestos bodies found in lungs during autopsies in Miami, Florida. Discussion of sources of airborne asbestos in the home and in city air the same as in Thomson's 1965 article (above). Gross argues asbestos bodies may not be specific for asbestos fibers and suggests use of term "ferruginous" body.
Asbestos air pollution	1967	Asbestos in urban air, Connecticut Medicine 31(1):77, January [#4347].	Refers to report by Thomson and Graves (1966, above) that showed Miami urban dwellers are exposed to some asbestos inhalation, although the concentration of asbestos particles in Miami air was not surveyed. Notes that airborne concentration of asbestos is certain to increase due to the wear of automobile clutch and brake linings, the weathering of asbestos roofing and even the wearing of floor tile containing asbestos.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 15 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Low-level asbestos exposure; fiber type; body burden	1967	W.C. Cooper, Asbestos as a hazard to health: Fact and speculation, Archives of Environmental Health 15:285-290, September [#1475].	Discusses evidence from literature on asbestos-related diseases and asbestos bodies and areas where data are lacking. Notes that for mesothelioma, there is a strong body of evidence that individuals with light, moderate and heavy exposures to crocidolite, amosite, or mixtures of amosite and chrysotile show tumors of type that is much less common in general population. States demonstration of ferruginous bodies in 1/4 to 1/2 of human lungs examined at autopsy points to urgent need for positive identification of mineral fibers responsible. If they prove to be asbestos, their significance in terms of human health cannot now be estimated since the point represented on the dose-response curve is unknown.
Nonoccupational mesothelioma; neighborhood exposure	1967	J. Lieben and H. Pistawka, Mesothelioma and asbestos exposure, Archives of Environmental Health 14:559-566, April [#1485].	Reviews 42 cases of mesothelioma reported from 152 hospitals over five-year period. Notes that of the 42 patients, 10 had definite occupational exposure to asbestos, 3 were family contacts of asbestos workers and 8 either lived in the neighborhood of asbestos plants or had been employed next to an asbestos plant. States that 11 patients had no asbestos exposure; in 10 patients, exposure to asbestos was questionable, including a cheesemaker who worked near a boiler covered with friable asbestos insulation which flaked on contact.

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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1967	I.J. Selikoff, R.A. Bader, M.E. Bader, J. Churg and E.C. Hammond, Asbestosis and neoplasia, American Journal of Medicine 42(4):487-496, April [#1491].	Reviews data on asbestos-related diseases. Notes one important question yet to be resolved is extent and sources of environmental contamination. States that under certain circumstances (e.g., factory neighborhood or worker household), environmental exposure has been shown to produce serious disease. Also states that prediction that widespread asbestos contamination of city air will be associated with widespread neoplasia is an assumption, an extrapolation. It is unknown at present whether or not small amounts inhaled as result of asbestos air pollution have effect comparable to much larger amounts inhaled in industrial or intimate environmental circumstances.
Asbestos in buildings; dust counts	1968	Asbestos vigilance needed, New Scientist, September 12, and rebuttal letter from W.P. Howard, Asbestos Information Committee, September 26 [#4348].	Suggests that increasing uses for asbestos in the home may be introducing new dangers. Howard replies there is no evidence that incorporation of asbestos in homes and other buildings has ever impaired the health of occupants. States that dust counts taken by the Asbestosis Research Council in buildings containing asbestos-based materials show a concentration of respirable fibers far below the level regarded as "negligible" by the British Occupational Hygiene Society's Sub-Committee on Hygiene Standards for chrysotile asbestos dust. (See Byrom et al., 1969, below.)

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 16 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/16

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 17 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution; body burden	1968	L.J. Cralley, R.G. Keenan, J.R. Lynch and W.S. Lainhart, Source and identification of respirable fibers, American Industrial Hygiene Association Journal 29(2):129-135, March-April [#3293].	Notes that findings of fibrous bodies in lungs during routine autopsies have led to conclusions that asbestos fibers are significant air contaminants and may have effect on community mortality patterns. Demonstrates that respirable fibers may be mineral, vegetable or animal in origin and may come from both natural and synthetic sources, so that nature of fibers from which bodies were derived must be established before meaning of their presence in the lung can be assessed.
Asbestos in buildings; sprayed asbestos	1968	L. Davies, Growing evidence of health risk supports case for firmer action, Municipal Engineering, November 15 [#4350].	Questions whether exposure to asbestos dust must now be regarded as a community health problem and not just an occupational hazard. States local authorities should take hard look at use of asbestos in any building projects they might have to approve and that growing tendency to accept sprayed asbestos for acoustic purposes in concert halls, libraries and swimming pools should be actively discouraged.
Asbestos in buildings; dust counts	1968	W.P. Howard, Asbestos-dust exposure: No scientific proof to support community health risk theory, Municipal Engineering, December 13 [#4351].	Rebuts Davies article (above), stating there is no evidence that any member of the public has ever contracted asbestosis as a result of normal use of asbestos-based products, let alone occupation of buildings in which asbestos is incorporated. Refers to the Asbestosis Research Council dust survey of buildings, including many with sprayed-asbestos ceilings. (See Byrom et al., 1969, below.)

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 18 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution; fiber release	1968	J.R. Lynch, Brake lining decomposition products, Journal of the Air Pollution Control Association 18:824-826 [#1450].	
Neighborhood exposure; pleural plaques	1968	L.O. Meurman, Pleural fibrocalcific plaques and asbestos exposure, Environmental Research 2:30-46 [#2707].	Reviews recent literature concerning calcific pleural plaques. Concludes that in those cases in which slight exposure to asbestos dust results from living in area encompassing asbestos deposits, or in neighborhood of asbestos factories, calcification is not usually associated with pulmonary fibrosis. Also states that if fibrosis is present, it is so mild it cannot be demonstrated roentgenographically and does not manifest itself as respiratory insufficiency.
Asbestos air pollution	1968	L. Noro, Occupational and "non-occupational" asbestosis in Finland, American Industrial Hygiene Association Journal 29:195-201, May-June [#1456].	Notes "horror-propaganda" appearing in newspapers and on radio and TV broadcasts concerning potential hazard of asbestos to health of entire population. Reviews studies in Finland on community exposure to anthophyllite asbestos. States some questions not yet answered are whether a small amount of asbestos dust, caused by construction activity and asbestos material in houses and brake linings of motor vehicles, has any influence on health of population in urban areas and whether this kind of minimal exposure has any carcinogenic effects.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 19 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution; body burden	1968	P.R. Peacock, C. Biancifiori and E. Bucciarelli, Examination of lung smears for asbestos bodies in 109 consecutive necropsies in Perugia, European Journal of Cancer 5:155-158, May [#4352].	Reports that asbestos bodies found in only 1 of 109 autopsies. Notes that Perugia is not an industrial city and is almost free from atmospheric pollution. Anticipates that airborne asbestos fibers may be inhaled more frequently in future than in past because of the increasing building construction in the city.
Body burden	1968	A. Pollack and M.I. Sacks, Prevalence of asbestos bodies in basal lung smears, Israel Journal of Medical Sciences 4(2):223-226, March-April [#4353].	Finds asbestos bodies in 26 of 100 autopsies in Jerusalem. Notes that practical implications of asbestos in urban human lungs are still uncertain. States that although possibility cannot be excluded that a relationship exists between mild or transient exposure to asbestos and subsequent development of bronchial carcinoma, minor degrees of exposure to asbestos are more likely to be associated with pleural than pulmonary changes.
Asbestos in buildings	1968	H.J. Royall, The health of the public and asbestos usage, Royal Institute of Public Health and Hygiene Journal 31(4):126-146, July-December [#4354].	Reviews literature on asbestos as a possible health hazard for the general public, although articles referred to primarily concern neighborhood and domestic (i.e., worker's family) exposure. States that in new buildings, asbestos may be found in walls, ceilings, floors, pipes, etc., and fibers may be inhaled and ingested. Health hazard may exist for the general population, especially for children, young persons and young adults who, after a small exposure to asbestos, may develop a tumor after a long latent period.

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CATEGORY	DATE	ARTICLE	COMMENTS
Neighborhood exposure; x-ray abnormalities	1968	N.L. Rusby, Pleural manifestations following the inhalation of asbestos in relation to malignant change, Journal of the Royal Naval Medical Service 54(2):142-148, Summer [Source C; #1459].	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 20 of 283
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asbestosclaims.law/library/24874/20

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 21 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1968	I.J. Selikoff and E.C. Hammond, Community effects of nonoccupational environmental asbestos exposure, American Journal of Public Health 58(9):1658-1666, September [#1461].	States literature review shows asbestos may be widely disseminated in general community from industry sources or end-products use, that such dissemination may produce detectable disease, and that methods to study question can be designed. Wonders whether a significant proportion of "community exposure" is actually unrecognized occupational exposure. Concludes much more study of asbestos air pollution is required -- its extent, sources, range, persistence.
Product use; fiber release	1968	I.R. Tabershaw, Asbestos as an environmental hazard, Journal of Occupational Medicine 10(1):32-37, January [#1468].	States it is premature to extrapolate from effects of heavy exposures to minor and low-level exposures, that effects are dose-dependent and low doses probably lead to lower rates and longer latency. Estimates that 10 to 15 percent of asbestos in end-products may become airborne by deterioration, weathering, heating, etc., but most asbestos products, once applied, do not disintegrate, such as building materials and floor tile. Cites need for studies of asbestos concentrations in ambient air.
Body burden	1968	M.D. Utidjian, P. Gross and R.T.P. deTreville, Ferruginous bodies in human lungs: Prevalence at random autopsies, Archives of Environmental Health 17:327-333, September [#1469].	Reports on finding ferruginous bodies in 97 of 100 autopsies, although studies to identify nature of central core of bodies are still under way. Concludes pulmonary fibrosis or neoplasm is rarely associated with presence of these bodies in the lungs of those not occupationally exposed to asbestos dust.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 22 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Body burden	1969	Asbestos dust -- A community hazard, Journal of the American Medical Association 209(8):1216-1217, August 25 [#4355].	Notes various studies showing that pulmonary ferruginous bodies in city dwellers are not always asbestos bodies. States that regardless of theoretical aspects of dangers associated with inhalation of a small number of asbestos fibers over a lifetime, and even if ferruginous bodies found in lungs of city dwellers are all asbestos bodies, no published report has associated findings of such bodies with an increased prevalence of pulmonary fibrosis or lung cancer.
Asbestos air pollution	1969	M. Braja, G. Trompeo and G. Turletti, [Public health problems posed by possible presence of asbestos in the urban atmosphere], L'Igiene Moderna 62(3-4):139-151 [#4356].	Reviews literature on nonoccupational health effects of asbestos exposure. Categorizes populations according to degrees of risk and defines criteria for control or inspection depending upon degree of risk encountered.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 23 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; dust counts	1969	J.C. Byrom, A.A. Hodgson and S. Holmes, A dust survey carried out in buildings incorporating asbestos-based materials in their construction, Annals of Occupational Hygiene 12:141-145 [#1420].	Reports on the British Asbestosis Research Council survey of 60 buildings incorporating asbestos products in construction, including hospitals, schools, offices, shops, etc. Shows asbestos dust concentrations both by type of asbestos material and by type of building. States that 93 percent of results fall within British Occupational Hygiene Society's nonoccupational negligible hazard limit (0.04 f/cm^3) and that in remaining 7 percent (5 locations), construction work was still in progress or there was evidence of failure to clean up properly after completion. Compares results with tests taken in buildings where no asbestos has been used and finds more than 40 percent of the concentrations are of the same order. Concludes dust concentrations in completed asbestos-containing buildings are not considered likely to constitute a hazard to health of occupants.
Asbestos air pollution	1969	Environmental asbestos: Threat or phantom, Journal of the American Medical Association 208(10):1785, June 9 [Source I; #4504].	
Neighborhood exposure	1969	I.J. Selikoff, Asbestos, Environment 11(2):3-7, March [Source G; #4500].	Reports on wider risk of asbestos-associated disease than that from direct occupational exposure. Notes various studies reporting indirect occupational exposure hazards. States effect of exposure in community at large not now known. Questions whether inhalation of asbestos

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CATEGORY	DATE	ARTICLE	COMMENTS
			fibers among individuals in general population carries special risk for cigarette smokers in that population. Refers to dose-response relationship, noting that, to present, disease has been uncommon except with significant exposure. [NOTE: According to Hill and Knowlton memo dated 12/30/68, during presentation, Selikoff made a direct reference to the ceiling in the meeting room being sprayed with asbestos which is always flaking off and to the tiled flooring outside which churns up asbestos.)
Nonoccupational mesothelioma; asbestos air pollution	1969	G.W. Wright, Asbestos and health in 1969, American Review of Respiratory Disease 100(4):467-479, October [#1434].	Notes that number of persons with mesothelioma who have not had a discoverable substantial exposure to asbestos is such a minuscule proportion of adult population that it is difficult to entertain view that the asbestos fibers that may be in the air and respired in a casual fashion by public at large pose genuine carcinogenic threat. Also states that strikingly rare occurrence of mesothelioma not related to occupation strongly suggests there is tolerable level of airborne asbestos fiber which does not cause undue risk of development of mesothelioma. Concludes that the risk to the general public posed by intermittent exposure to low concentrations of asbestos present in ambient air has been exaggerated.

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 24 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/24

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 25 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1970	E.J. Chatfield, Measurement of asbestos fibers in the workplace and in the general environment, MAC Short Course in Mineralogical Techniques of Asbestos Determination (R.L. Ledoux, editor); Toronto, OT: Mineralogical Association of Canada, pp. 111-164.	
	1970	M. Fishbein, The threat of asbestos, Medical World News, p. 24, April 24 [#4505].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 26 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Low-level asbestos exposure; product use; fiber release	1970	E. Martin, Asbestos in the environment: Possible hazards to the general population, Health Trends 2(1):19-22, February [#4313].	
Construction workers; pleural plaques	1970	S.B. Mattson and T. Ringqvist, Pleural plaques and exposure to asbestos, Scandinavian Journal of Respiratory Diseases Supplement 75:1-40 [#1399].	Reports on 42 cases of pleural plaques in Sweden, including 1 with malignant pleural mesothelioma and 1 suspected pleural mesothelioma. Regards pleural plaques as sign of asbestos dust in individual's occupational environment. Notes that patients were mostly in occupational categories where temporary and irregular use of asbestos-containing materials occurs, primarily the building industry.
Nonoccupational mesothelioma; fiber type	1970	A.D. McDonald, A. Harper, O.A. El Attar and J.C. McDonald, Epidemiology of primary malignant mesothelial tumours in Canada, Pneumoconiosis: Proceedings of the International Conference, Johannesburg, 1969, (H.A. Shapiro, editor); London: Oxford University Press, pp. 197-200 [#1400].	Analyzes 165 cases of mesothelioma and 328 fatal control cases. Finds occupational exposure to asbestos "unlikely" in 61 percent of cases. Lesser degrees of occupational exposure, indirect household contact or residence in asbestos mining areas were no more frequently reported for cases than for controls. Suggests that chrysotile is less associated with mesothelial tumors than other forms of asbestos or that something in addition to asbestos is necessary for tumor development.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 27 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Lung cancer; body burden	1970	L.O. Meurman, M. Hormia, M. Isomaki and S. Sutinen, Asbestos bodies in the lungs of a series of Finnish lung cancer patients, Pneumoconiosis: Proceedings of the International Conference, Johannesburg, 1969, (H.A. Shapiro, editor); London: Oxford University Press, pp. 404-407 [#4314].	Finds no significant association between occurrence of asbestos bodies and occurrence of lung cancer in 50 consecutive lung cancer cases coming to autopsy in Finland. Notes, however, that if tobacco smoking is added to slight exposure to asbestos (indicated by low numbers of asbestos bodies in lungs), a rise in incidence of lung cancer will result.
Sprayed asbestos	1970	W. Muglich and P. Schulz, [Occupational hygiene problems with spraying of asbestos and mineral fibers], Atemschutz-Informationen 9:17-22 [#4315].	Reports that dust concentrations 10 times maximum allowable concentration were found during spray operations in German Democratic Republic. Notes sprayers wear full protective clothing and fresh-air supply respirators, are examined yearly, and are only allowed to work for period of 4 years. Also notes that rooms have to be thoroughly vacuum-cleaned after spraying.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 28 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution; body burden	1970	I.J. Selikoff and E.C. Hammond, Asbestos bodies in the New York City population in two periods of time, Pneumoconiosis: Proceedings of the International Conference, Johannesburg, 1969, (H.A. Shapiro, editor); London: Oxford University Press, pp. 99-105 [#4424].	Reports on study under way on 3,000 consecutive autopsies in New York and describes findings on 856 cases completely investigated. Concludes that while asbestos bodies are commonly present in adult lungs, their occurrence is not a random event but is largely occupationally related. Suggests that construction industry may be responsible for large proportion of asbestos bodies in routine autopsies. Notes, however, that growth in asbestos consumption has been in locked-in products such as floor tiles and asbestos cement products and that more friable substances such as insulation materials and acoustical products have not changed very much in total quantity used in past 40 years.
Asbestos in buildings; fiber release	1970	E. Walther, Dust problems in the use of asbestos products, Pneumoconiosis: Proceedings of the International Conference, Johannesburg, 1969, (H.A. Shapiro, editor); London: Oxford University Press, pp. 37-41 [#4426].	Notes areas where factual knowledge is lacking, including concentrations of asbestos fibers in ambient air of city streets and the kinds and numbers of all types of fibers (not only asbestos) in rooms where fibers could be released from walls, ceilings, insulation linings, air ducts or floors. States that liberation of asbestos fiber from floor tile in normal usage must be termed infinitesimal. Refers to fiber-based insulation products as having little resistance of their own to abrasion or shock and thus are provided with protective coverings such as sealers, adhesives or tough decorative coatings. Finds no factual evidence of a health hazard from these products once they are installed and properly maintained.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 29 of 283

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1971	G. Brouet, J. Bignon, G. Bonnaud and J. Goni, [Health impact of atmospheric pollution by asbestos or by other fibrous particles], Revue de Tuberculose et de Pneumologie 35(5):461-478, July-August [#4324].	Reviews literature on asbestos health effects and on asbestos bodies in the lungs in urban populations. Suggests asbestos air pollution may increase owing to rapid rise in world asbestos production. Questions whether increasing asbestos air pollution is now a threat to health of city dwellers. Advises implementation of asbestos pollution control program in France.
Low-level asbestos exposure; body burden	1971	A.M. Langer and I.J. Selikoff, Chrysotile asbestos in lungs of residents of New York City, Proceedings of Second International Clean Air Congress, (H.M. Englund and W.T. Beery, editors); New York: Academic Press, pp. 161-165. Similar information published by Langer, Selikoff and A. Sastre in Archives of Environmental Health 22:348-361, March 1971 [#3421].	Reports that chrysotile asbestos is commonly found in lungs of New York City autopsy cases, and transmission electron microscopy is essential for identification. The demonstration of asbestos bodies in human lung tissue is an inadequate index of presence or absence of chrysotile asbestos. States that fact that disease occurs with "large" (direct occupational) or "moderate" (indirect occupational) or "low" (neighborhood or family) levels of exposure does not mean that "very low" (general community) exposures will necessarily also result in disease; assumptions that they will or will not are premature.
Asbestos in buildings; dust counts	1971	K.P.S. Lumley, P.G. Harries and F.J. O'Kelly, Buildings insulated with sprayed asbestos: A potential hazard, Annals of	Reports on survey of storehouses insulated with sprayed crocidolite and amosite asbestos at Britain's Devonport Naval Dockyard. States that insulation was found to be damaged because it was unprotected and that dust sampling tests showed occupants could be exposed to harmful

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 30 of 283

CATEGORY	DATE	ARTICLE	COMMENTS
		Occupational Hygiene 14:255-257 [#4325].	levels of asbestos dust if insulation or fallen asbestos debris was disturbed. Notes increase in dust concentration with increase in activity. Lists dust concentrations by fiber type and by activity level, showing mean counts of 0.26 f/cm^3 (crocidolite) and 1.9 f/cm^3 (amosite) with no activity, up to 350 f/cm^3 (amosite) with brushing unprotected sprayed asbestos. Recommends control of hazard by sealing the insulation and maintaining the sealant in good condition.
Fiber release; dust counts	1971	R.L. Murphy, B.W. Levine, F.J. Al Bazzaz, J.J. Lynch and W.A. Burgess, Floor tile installation as a source of asbestos exposure, American Review of Respiratory Disease 104:576-580 [#2449].	Describes cases of two floor tile installers, one with mesothelioma and another with extensive pleural calcifications. Under simulated work conditions, asbestos dust concentrations as high as 1.3 fibers per ml found in air samples during sanding of vinyl asbestos. Recommends provision of adequate respiratory protection.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 31 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Sprayed asbestos; dust counts	1971	W.J. Nicholson, A.N. Rohl and E.F. Ferrand, Asbestos air pollution in New York City, Proceedings of the Second International Clean Air Congress, (H.M. Englund and W.T. Beery, editors); New York: Academic Press, pp. 136-139 [#4326].	Reports on a cooperative program between New York City Department of Air Resources and Mt. Sinai Environmental Sciences Laboratory to sample and analyze asbestos in ambient air in order to measure existing levels of asbestos and to determine effectiveness of spray fireproofing control procedures instituted by the city. Notes it was not uncommon to see extensive snowfalls of asbestos-containing material over widespread areas of New York and other metropolitan centers during spray fireproofing, raising serious concern for health of people exposed to airborne fibers. States that continuing uncontrolled spraying practices in face of mounting evidence of risk to all metropolitan residents would be playing asbestos roulette with lives of millions of people. Results of sampling showed chrysotile levels approximately 10 times background in some instances.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 32 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1971	J. Ramesy, Asbestos pollution: Something in the wind, Family Health, pp. 40-42, June [#4506].	
Sprayed asbestos	1971	W.B. Reitze, D.A. Holaday, H. Romer and E.M. Fenner, Control of asbestos fiber emissions from industrial and commercial sources, Proceedings of the Second International Clean Air Congress, (H.M. Englund and W.T. Beery, editors); New York: Academic Press, pp. 100-103 [#4327].	Notes that application of sprayed asbestos fireproofing contributes large quantities of asbestos fiber in the ambient air each year. Discusses regulations governing spray operations adopted by New York City, but states that methods of controlling asbestos fiber emissions from construction sites are still in developmental stages.
Asbestos air pollution	1971	A.L. Rickards and D. V. Badami, Chrysotile asbestos in urban air, Nature 234(324):93-94, November 12.	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 33 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution; product use; fiber release	1971	I.J. Selikoff, E.C. Hammond and H. Heimann, Critical evaluation of disease hazards associated with community asbestos air pollution, Proceedings of the Second International Clean Air Congress, (H.M. Englund and W.T. Beery, editors); New York: Academic Press, pp. 165-171 [#4328].	Notes variety of circumstances in which asbestos air pollution can occur, in addition to direct occupational exposure. Lists these as indirect occupational exposure, family exposure, neighborhood exposure, random (close) exposure and general community asbestos air pollution. Describes random (close) exposure as a wide variety of chance, intermittent or nonrecurring exposures, ranging from use of asbestos powder in schoolrooms to the do-it-yourself home repairs of boilers with asbestos insulation. When the use of asbestos products results in airborne asbestos fibers, concern might be justified, but when "locked in," as asbestos often is, the hazard would not be present.
Sprayed asbestos	1971	M. Sheinbaum, Recommended safe practices for spraying asbestos, Industrial Hygiene Review 13(1):3-5, January [#4329].	Recommends use of spray materials that do not contain asbestos, but provides guidelines for protection of operating personnel in cases where asbestos must be sprayed. Also indicates appropriate work practices and procedures to protect workers other than spray crewmen.
Environmental exposure; Canada	1971	J.P. Wyatt, Occupational lung diseases and inferential relationships to general population hazards, American Journal of Pathology 64(1):197-216, July [#4712].	
	1972	Asbestos, asbestos everywhere, Chemistry, May, p. 23.	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 34 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1972	Atmospheric asbestos controls, Health Services Reports 87(3):223-224, March [Source G: #4792].	Asbestos as urban air contaminant.
Asbestos air pollution	1972	D.V. Bates, A Citizen's Guide to Air Pollution, Environmental Damage and Control in Canada; Montreal: McGill-Queen's University Press, Volume 2, May.	
Risk assessment	1972	Environmental Asbestos: Health Effects and Recommended Standards, Illinois Institute for Environmental Quality (IIEQ Document No. EHRC-4), December.	Recommends ambient air quality standard of 1000 asbestos fibers/m^3 (0.001 f/cc) based on 24-hour average sample. Constructs concentration incidence "envelope" which indicates that recommended standard represents hypothetical incidence of one in a million that a member of general population will develop mesothelioma due to exposure to asbestos fibers.
Nonoccupational mesothelioma; childhood exposure	1972	G.W. Grundy and R.W. Miller, Malignant mesothelioma in childhood, Cancer 30(5):1216-1218, November [#2425].	Reports on survey of 42,597 death certificates for children who died of cancer in the United States, 1960-1968, 31 of which had a diagnosis of mesothelioma. States that 13 of these were confirmed by data from hospital records; remainder were either erroneously recorded or unavailable for review. Notes very little environmental data in records, especially exposure histories. Discusses opportunities for children to encounter asbestos in their environment, including in the home from insulating material and vinyl-asbestos floor

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CATEGORY	DATE	ARTICLE	COMMENTS
			tiles. Whether or not such nonoccupational exposures account for any of the cases in this series in unknown. It is possible that mesothelioma of the pleura in children is not induced by asbestos, citing absence of geographic clustering, short latency and different histologic characteristics of tumor.

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 35 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/35

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 36 of 283

CATEGORY	DATE	ARTICLE	COMMENTS
	1972	Health Hazards of the Human Environment; Geneva: World Health Organization.	
Asbestos in buildings; sprayed asbestos; dust counts	1972	G. Matheson, The experiment nobody wants, Water and Pollution Control, pp. 60-66, September [#4330].	Notes that long-term health effects in people working in asbestos-sprayed buildings are still unknown, and that air sampling techniques are uncertain. States Ontario has highly tentative ambient air standard of 0.04 f/cc and compares this with results of British survey of buildings (Byrom, 1969, above). Notes that in 4 instances, British office buildings were shown to exceed Ontario's ambient air standard. Regards results of study commissioned by U.S. Sprayed Mineral Fiber Manufacturers Association (unpublished) that shows no exposure to asbestos fibers of respirable size in work environment of new federal building to be in blatant contrast to both British study and erosion characteristics of sprayed material. Criticizes air erosion tests of one spray product and criticizes lack of enforcement of appropriate work practices at spray operations. Concludes a sealer might defuse potential danger by making erosion impossible, but states real answer may be use of nonasbestos material.
Sprayed asbestos	1972	N.L. Nelson, Asbestos: Airborne danger, Safety Standards, May-June, pp. 2-8 [Source G; #4793].	
Sprayed asbestos; dust counts	1972	W.B. Reitze, W.J. Nicholson, D.A. Holaday	Reports on investigation of sprayed asbestos material begun in 1966. Describes uses,

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CATEGORY	DATE	ARTICLE	COMMENTS
		and I.J. Selikoff, Application of sprayed inorganic fiber containing asbestos: Occupational health hazards, American Industrial Hygiene Association Journal 33:178-191, March [#4331].	composition and method of application. Discusses possible health effects on workers with direct exposure and on those with indirect exposure and states risk of asbestosis may be greater in first group whereas second group may have increased risk to mesothelioma. Notes on-site fiber counts ranging from 70 f/cc 10 feet from spray nozzle to 46 f/cc 75 feet away, and counts taken 30 minutes after completion of spray ranging from 0.25 to 0.76 f/cc. Describes New York City's sprayed insulation regulations. Notes that, in some cases, because of poor housekeeping, waste fibrous material is allowed to remain in ventilating ducts and dropped ceilings, contributing to lifetime contamination of structure. Concludes that sprayed insulation practices can be controlled to minimize or eliminate direct and indirect occupational hazards, but such controls are expensive, tedious and cumbersome.
Nonoccupational mesothelioma; fiber type	1972	Report of the Advisory Committee on Asbestos Cancers; Lyon, France: International Agency for Research on Cancer, October 6 [#4332].	Summarizes discussions of Epidemiology, Pathology, and Physics and Chemistry Panels. Notes that risk of mesothelioma is greatest with crocidolite, less with amosite and apparently less with chrysotile. States that a proportion of cases of mesothelioma has no known association with exposure to asbestos. Finds evidence of association of mesothelioma tumors with air pollution in neighborhood of crocidolite mines and factories using mixtures of asbestos fiber types, but no evidence of excess risk of mesotheliomas from asbestos air pollution in neighborhood of chrysotile and amosite mines.

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 37 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/37

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 38 of 283

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Nonoccupational mesothelioma; neighborhood exposure	1972	G.F. Rubino, G. Scansetti and A. Donna, [Epidemiology of pleural mesothelioma in urban industrial areas], La Medicina del Lavoro 63(7-8):299-315 [#4333].	Reports on 102 cases of pleural mesothelioma examined at University of Turin from 1960 to 1970. Notes that in 50 cases where diagnosis was confirmed and occupational and residential history available, five cases had positive occupational exposure to asbestos, three cases were family members of asbestos workers and three more lived in neighborhood of asbestos industry. Explains low percentage of occupational history in these mesothelioma cases by fact that crocidolite is only moderately used in the region.
Asbestos air pollution; dust counts	1972	I.J. Selikoff, W.J. Nicholson and A.J. Langer, Asbestos air pollution, Archives of Environmental Health 25:1-13, July [#2432].	Discusses evidence indicating presence of asbestos contamination of air. Notes different sets of circumstances in which such pollution can occur, varying in intensity, intimacy and duration of exposure. Reports on counts of chrysotile in air sampled in various points in New York City, ranging from 10 to 100 x 10^{-9} grams per cubic meter. States potential for pollution varies with degree of fixation of fiber in product. Notes that although asbestos pollution of urban air is established, what has not been defined is dimension of disease which may be associated with that pollution.

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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; abatement	1972	K. Young, A silent pollutant, Health Services World, September-October [#4334].	Describes closing of Northside Elementary School in Lander, Wyoming because of accessibility of sprayed-on asbestos insulation, and inspection of school at request of state by NIOSH regional industrial hygienist and the deputy director of the NIOSH Cincinnati laboratories. States that even though asbestos standards in effect were not exceeded in measurement teken in building, Wyoming officials were concerned that exposure to asbestos at any level increases possible chances of cancer. Quotes NIOSH investigators that deteriorating physical condition of asbestos ceilings can only result in increased asbestos exposure in future and any further exposure to the children is considered imprudent and hazardous to health.
Sprayed asbestos; neighborhood exposure; nonoccupational mesothelioma	1973	H. Bohlig and E. Hain, Cancer in relation to environmental exposure, Biological Effects of Asbestos; IARC Scientific Publications No. 8, pp. 217-221 [#2382].	Notes that asbestos spraying may be important cause of asbestos-induced cancers and that while asbestos sprayers are nowadays completely protected, others working nearby or people living in the neighborhood may be exposed to severe air pollution from sprayed asbestos dust. Reports on survey of 38 mesothelioma cases from neighborhood of single asbestos plant in Hamburg, Germany, from which a severe, visible snowfall-like air pollution was emitted in years before Second World War.

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 39 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/39

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 40 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution; body burden	1973	J.M.G. Davis and P. Gross, Are ferruginous bodies an indication of atmospheric pollution by asbestos? IARC Scientific Publications 8: pp. 238-242 [Source I: 4828].	
Sprayed asbestos; fiber release	1973	R.O. Gorson and J.L. Lieberman, The prohibition of the use of asbestos spray in building construction, Journal of Occupational Medicine 15(3):260-261, March [#4336].	Describes events leading to a regulation by Philadelphia Board of Health prohibiting use of sprayed asbestos in buildings and details recommendations made by Ad Hoc Committee. Notes Committee's concern for potential hazard to future occupants of such buildings after erosion or dislodging of asbestos fibers in air plenum chambers.
Asbestos air pollution	1973	Health effects of air pollution, official statement of the American Thoracic Society, approved May 20, 1973, American Review of Respiratory Disease 108:719-720, September [#4337].	Notes that asbestos is controlled by emission standards in order to minimize the exposure of general populations. States asbestos has been definitely implicated as producing disease in nonoccupationally exposed individuals.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 41 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution; dust counts	1973	P.F. Holt and D.K. Young, Asbestos fibers in the air of towns, Atmospheric Environment 7:481-483 and 7:666-670 [#4338].	Reports on air samples taken in London, Reading, Rochdale, Bochum, Dusseldorf, Prague, Pilsen, Johannesburg and Reykjavik, including samples taken inside a building in London. Notes that asbestos fibers were found in samples from every town, but concentration of fibers is small and there is no indication whether fibers are pathologically significant.
Asbestos air pollution; dust counts	1973	A.D. Mackler, W.J. Nicholson, A.N. Rohl and I.J. Selikoff, [Asbestos chrysotile in the atmosphere of towns in the U.S.A.], Revue de Tuberculose et de Pneumologie 36(8):1193-1201 [#4339].	Reports results of air sampling in New York City, in places adjacent to spraying of asbestos insulation on steel construction and in atmosphere of 50 U.S. cities. Asbestos concentrations ranged from less than 1 nanogram to more than 50 nanograms per m^3.
Nonoccupational mesothelioma	1973	J.C. McDonald, Cancer in chrysotile mines and mills, Biological Effects of Asbestos; Lyon: IARC Scientific Publications No. 8, pp. 189-194 [#1308]; Lyon, France, October 2-6, 1972.	Describes 11 cases of mesothelioma associated with chrysotile mining and milling. Notes three cases in family members of mill workers and that these patients died at earlier age than those occupationally exposed. States that there have been cases of mesothelioma found in Canada after occupational and domestic exposure, but not after purely neighborhood exposure and this fact suggests that low dust levels prevailing in mining communities have not been sufficient to cause disease.

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PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
Nonoccupational mesothelioma	1973	A.D. McDonald and J.C. McDonald, Epidemiologic surveillance of mesothelioma in Canada, Canadian Medical Association Journal 109:359-362, September 1 [#2399].	Summarizes findings in 71 cases of mesothelioma registered in Canada in 1968-1970. States that occupational exposure was primarily in manufacture of asbestos products and in insulating work; exposure through mining or milling was mentioned in only a small portion of cases. Four women and one man had domestic exposure to dusty clothing of an asbestos worker, but no case other than those occupationally or domestically exposed had lived within 20 miles of asbestos mines or mills.
Nonoccupational mesothelioma; neighborhood exposure	1973	M.L. Newhouse, Asbestos in the workplace and the community, Annals of Occupational Hygiene 16:97-102 [#1312].	Analysis of data from cohort of asbestos factory workers which shows excess mortality from cancer of the lung and pleura. In the past, asbestos pollution from crocidolite mines and from factories using crocidolite has resulted in occurrence of mesothelial tumors in neighborhood populations, although such conditions probably do not now arise in developed countries.
Asbestos air pollution; dust counts	1973	W.J. Nicholson and F.L. Pundsack, Asbestos in the environment, Biological Effects of Asbestos, Lyon: IARC Scientific Publications No. 8, pp. 126-130; Lyon, France, October, 1972.	Analyzes 187 air samples from 49 U.S. cities, collected by National Air Pollution Control Administration during 1969 and 1970. Notes that spray asbestos fireproofing can contribute significantly to asbestos air pollution and that chrysotile asbestos levels of approximately 100 times "background" were observed in some instances.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 43 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Body burden; fiber type	1973	F.D. Pooley, Mesothelioma in relation to exposure, Biological Effects of Asbestos, Lyon: IARC Scientific Publications No. 8, pp. 222-225 [#2405]; Lyon, France, October, 1972.	Reports on electron microscopic examination of lung tissue from 120 cases of mesothelioma from Great Britain, Sweden, Holland and Canada. Concludes that lung tissue from cases diagnosed as mesothelioma contains larger numbers of asbestos fibers than does tissue obtained from general population. The predominant fiber type detected in lung tissue of mesothelioma cases was amphibole asbestos.
Nonoccupational mesothelioma; asbestos cement	1974	M. Greenberg and T.A. Davies, Mesothelioma register 1967-1968, British Journal of Industrial Medicine, 31:91-104 [#1270].	Reviews 413 notifications to Register from England, Wales and Scotland, of which 246 cases were accepted as "definite" and 76 cases as "definitely not" mesothelioma; remainder were classified as "undecided" or "insufficient pathological material." Provides information on 14 cases of nonoccupational exposure, primarily neighborhood or domestic, but including three cases with exposures "that might be considered minimal and common experience" (living in house composed largely of asbestos cement sheets, working on chicken farm composed of asbestos cement buildings and sawing up asbestos cement sheets to construct two sheds).

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 44 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Sprayed asbestos; dust counts; abatement	1974	G.L. Lee and D.J. Smith, Steelwork insulated with sprayed crocidolite asbestos: Controlling a potential hazard, Annals of Occupational Hygiene 17:49-52 [#4342].	Reports on dust samples at several British factory sites, including a small boiler/compressor house, where sprayed crocidolite asbestos insulation was present. Notes that where asbestos surfaces were a little friable and had small areas of damage, asbestos dust concentrations ranged from 0.15 to 0.22 f/cm^3 during normal work periods, showing exposures approaching the TLV suggested by H.M. Factory Inspectorate. Describes sealing process and clean-up. After completion of sealing work, asbestos dust concentration was 0.04 f/cm^3 during normal plant operation.
Asbestos air pollution; dust counts	1975	L. Bruckman and R.A. Rubino, Asbestos: Rationale behind a proposed air quality standard, Journal of the Air Pollution Control Association 25(12):1207-1215, December [#4343].	Describes construction of a mesothelioma incidence "envelope" for the general population, based on mesothelioma incidence due to industrial exposure. Recommends ambient air quality asbestos standard of 30 ng/m^3, based on 30-day average sample, which is projected to result in 150 nationwide fatalities. Notes that available ambient air asbestos data indicate nonurban asbestos levels typically less than 1 ng/m^3 while urban areas are usually below 30 ng/m^3.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 45 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
	1975	E.J. Chatfield, Asbestos background levels in three filter media used for environmental monitoring, Proceedings of the 33rd Annual Meeting of the Electron Microscopy Society of America (C.J. Arceneaux, editor); Baton Rouge, LA: Claitor's Publishing Division.	
Asbestos air pollution; body burden	1975	P. Fréour and J.R. Pierron, [Asbestos -- A part of atmospheric pollution; its role in human pathology], Bulletin de l'Académie Nationale de Medicine 159(3):271-275, March [#4344].	Questions whether asbestos bodies in the lungs of city dwellers not occupationally exposed to asbestos constitute a risk of pulmonary cancer and calls for more epidemiologic studies among general population.
Product use	1975	W.J. Nicholson, A. Rohl, S.A. Fischbein and I.J. Selikoff, Occupational and community asbestos exposure from wallboard finishing compounds, Bulletin of the New York Academy of Medicine 51:1180-1181 [Source G; #4709].	
Asbestos in	1975	V. Osborne and D.	Describes asbestos removal project in library of

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 46 of 283

CATEGORY	DATE	ARTICLE	COMMENTS
buildings; abatement; dust counts		Osborne, A model for asbestos removal, Professional Safety 20(12):28-31, December [#4345].	Art and Architecture Building, Yale University. Notes that tests done in 1971 showed maximum asbestos levels of 0.5 f/cc. Ceilings were sealed with paint in 1973. Tests performed in summer of 1975 found exposures ranging from 0.88 to 18.3 f/cc, so decision made to remove asbestos. States that average level of exposure following completion of removal work is 0.05 f/cc and, in some cases, down to 0.01 f/cc.
Sprayed asbestos; dust counts	1975	H.B. Rhodes and B.L. Ingalls, Comparison of airborne asbestos concentrations--Canadian and California asbestos based ceiling texture sprays, Niagara Falls, NY: Union Carbide Corporation Metals Division, June 24 [Source G; #4470].	
Product use; dust counts	1975	A.N. Rohl, A.M. Langer, I.J. Selikoff and W.J. Nicholson, Exposure to asbestos in the use of consumer spackling, patching and taping compounds, Science 189: 551-553, August [#2331].	Describes measurements taken during home repair work involving use of asbestos-containing spackling, patching and taping compounds. Notes that members of household or other occupants of building may inhale asbestos fibers during mixing, sanding or cleaning up of debris and that detectable fiber concentrations were found in adjacent rooms and were still suspended in room air at least 15 minutes after mixing had ceased. States concentrations were frequently in excess of current occupational standard.

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CATEGORY	DATE	ARTICLE	COMMENTS
Sprayed asbestos; dust counts	1975	J.W. Skidmore and J.S.P. Jones, Monitoring an asbestos spray process, Annals of Occupational Hygiene 18:151-156 [#4346].	Reports on asbestos-cement spray process, using amosite exclusively, observed in Nottingham, England. Notes that highest concentrations (0.8 to 8 f/cm^3) found were in breathing zone of spray operator who wore respiratory protection. States there was no significant health hazard to other workmen provided they remained clear of spraying area and spraying area was adequately screened. There was a potential hazard to other workers, however, from debris and deposits left by spray team after inadequate clean-up.
Lung cancer; body burden	1975	M.L. Warnock and A.M. Churg, Association of asbestos and bronchogenic carcinoma in a population with low asbestos exposure, Cancer 35(4):1236-1242, April [#2339].	Analyzes data on ferruginous bodies from lungs of 100 controls and 30 lung cancer patients. Finds that lung cancer group had significantly higher levels although only one patient was known to be occupationally exposed to asbestos. Notes the large preponderance of males in the carcinoma patients, suggesting occupational exposure, and that a high percentage of tumors was found in lower lobe, as is case with known asbestos-associated lesions.
Brake linings; fiber release; dust counts	1976	J. Alste, D. Watson and J. Bagg, Airborne asbestos in the vicinity of a freeway, Atmospheric Environment 10:583-589 [Source G: #4357].	Suggests that asbestos emissions from brakes can become airborne, yet concentrations from samples collected at a freeway exit are very low, below the recommended exposure standard (NIOSH). This is consistent with other research that shows only a small fraction of the total dust from brakes becomes airborne.

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 47 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/47

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Sprayed asbestos; fiber release	1976	Asbestos hazards in buildings, Lancet 1:1251-1252, June 5 [#4359].	States that U.K. Health and Safety Executive finds no risk from use of sprayed asbestos provided coating is intact and properly sealed, but high concentrations of asbestos dust may arise when coating has been damaged. Notes that crocidolite (the most dangerous type of asbestos) is especially attractive to birds in search of nesting materials.
Asbestos in buildings	1976	Asbestos in the office air, Job Safety & Health, March, pp. 12-14 [Source G: #4797].	
Sprayed asbestos	1976	R. Barnes, Asbestos spraying: An occupational and environmental hazard, Medical Journal of Australia 2:599-602, October 16 [#4360].	Provides case reports of three asbestos-spray operators awarded compensation for asbestos-related disability, and discusses need for more stringent work controls. Notes environmental contamination that can result in factories, offices and homes when wall and ceiling asbestos linings become neglected and damaged.
Neighborhood exposure	1976	J. Bignon, M. Bientz and G. Bonnaud, [Asbestos and environment: Possible risk of cancer for the general population], La Revue du Practicien 26(33):2353-2357, June 11 [#4361].	Notes high air levels of asbestos in neighborhood of asbestos plants with insufficient dust controls and air pollution resulting from building construction, particularly spraying. Also notes that friable asbestos materials can release fibers, exposing building occupants.

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CATEGORY	DATE	ARTICLE	COMMENTS
Nonoccupational mesothelioma	1976	Exposure to asbestos dust, British Medical Journal, June 5, pp. 1361-1362 [#2273].	Reports that about 200 mesotheliomas are diagnosed per year in the United Kingdom, of which 60 occur in people with no known exposure to asbestos. Notes that even if it was assumed that all these cases were due to environmental exposure to low levels of asbestos, risk would be small, e.g., less than 1/100th chance of being killed on roads. States that whenever fiber in asbestos building materials has been exposed and is flaking off, the possible danger must be taken seriously and precautions taken to prevent any leakage.
Neighborhood exposure	1976	T.R. Fears, Cancer mortality and asbestos deposits, American Journal of Epidemiology 104(5):523-526 [#2274].	Reviews U.S. counties with asbestos deposits and matched control counties with no known asbestos. Concludes study provides no evidence that naturally-occurring asbestos is a great hazard to general population of counties with asbestos deposits. Notes, however, that no measurements of asbestos exposure were taken; assumption was made that presence of asbestos deposits would lead to elevated exposure.
Nonoccupational mesothelioma; childhood exposure	1976	S.I. Gutman, P.G. Steinherz and G.F. Gray, Malignant peritoneal mesothelioma in a child, American Journal of Diseases of Children 130(11):1268-1269, November [Source G; #4362].	Reports on case of a 3-year-old girl with primary peritoneal mesothelioma, the third documented peritoneal mesothelioma in a child. Notes that history of asbestos exposure was not elicited and examination of the lungs at autopsy failed to demonstrate asbestos bodies. Comments that relationship between asbestos and mesothelioma appears tenuous in children and an environmental factor is not now established for childhood mesothelioma.

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 49 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/49

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 50 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1976	W. John, J. Brenner, G. Smith, J.J. Wessolowski, Quantification of Asbestos in Ambient Air Near Mines and Mills; Berkeley, CA: American Industry Hygiene Laboratory (ARB 3-688).	
Asbestos air pollution	1976	W. John, J. Brenner, G. Smith and J.J. Wessolowski, Experimental Determination of the Number and Size of Asbestos Fibers in Ambient Air; Berkeley, CA: American Industry Hygiene Laboratory.	
Sprayed asbestos; nonoccupational mesothelioma	1976	The hazard of asbestos, Medical Journal of Australia 2:588-590, October 16 [#2288].	Comments on recent studies and notes that fact that no association with asbestos can be found in 15 percent of cases of mesothelioma suggests this tumor may be more common than has been supposed. States that regulations in New South Wales were amended in 1975 to prohibit spraying of asbestos in any building work except where permission has been specifically obtained.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 51 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Nonoccupational mesothelioma	1976	C. Lemesch, R. Steinitz and M. Wassermann, Epidemiology of mesothelioma in Israel, Environmental Research 12:255-261 [#4364].	Reviews 65 cases of mesothelioma registered at Israel Cancer Registry during 1960-1972, but notes observed incidence rates may be underestimated in many cases where an autopsy has not been performed. Finds definite occupational exposure to asbestos in only one case and possible occupational exposure in seven others. States there may be factors, apart from occupational exposure to asbestos, contributing to incidence of mesothelioma in Israel; however, comments that asbestos industry in Israel was established only in early 1950's and it is possible that more cases of clear occupational origin will appear in near future.
	1976	D.C. Muir, Health hazards of thermal insulation products, Annals of Occupational Hygiene 19(2):139-145, November.	
Asbestos in buildings	1976	W.J. Nicholson, A.N. Rohl and I. Weismann, Asbestos contamination of building air supply systems, Institute of Electrical and Electronic Engineers Annals, No. 29-6, pp. 1-4 [Source G; #4365].	Condensation of report submitted by Nicholson and his colleagues to the U.S. Environmental Protection Agency (1975, above).

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PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings	1976	H. Roberts, Asbestos: An appraisal of an investigation into problems due to its presence in local authority buildings, Environmental Health, p. 249, October [Source G; #4471].	

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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; abatement; dust counts	1976	Robert N. Sawyer, Yale Art and Architecture Building asbestos contamination: Past, present and future, Institute of Electrical and Electronic Engineers Annals, No. 29-5, pp. 1-5 [Source G; #4366].	Describes problems with friable asbestos-containing ceilings in Yale building, including process of asbestos removal using amended water method. Lists results of air sampling prior to removal, during removal work and following completion of removal project. Notes that prior to removal, some activities exceeded occupational exposure TLV's and that all building users, even the most sedentary, were exposed to an asbestos level over that found in the ambient air in the community.
Asbestos air pollution	1976	P. Sebastien, J. Bignon, A. Gaudichet and G. Bonnaud, [Urban air pollution from asbestos], Revue Francaise des Maladies Respiratoires 2:51-62.	
Asbestos in buildings	1976	I.J. Selikoff, Asbestos disease in the construction industry; New York: Mt. Sinai School of Medicine, November [Source G; #4778].	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 53 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/53

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 54 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Nonoccupational mesothelioma; neighborhood exposure	1976	I.J. Selikoff, Environmental cancer associated with inorganic microparticulate air pollution, Clinical Implications of Air Pollution Research. (A.J. Finkel and W.C. Duel, editors); Publishing Sciences Group [#2342].	Includes review of literature on neighborhood exposure and household contact and development of mesothelioma. Notes that intensity and duration of exposure needed to cause neighborhood asbestos mesothelioma does not seem to be very great, at least in comparison with exposures in occupational or family circumstances. Cautions, however, that it should not be assumed that "brief exposure" is synonymous with "minimal exposure."
Asbestos air pollution	1976	E.C. Vigliani, M. Patroni, E. Occella, R.E. Rendal, M. Skikne and P. Ellis, Presence and identification of fibres in the atmosphere of Milan, La Medicina del Lavoro 67:551-567.	
Nonoccupational mesothelioma; neighborhood exposure	1977	K.J. Arul and P.F. Holt, Mesothelioma possibly due to environmental exposure to asbestos in childhood, International Archives of Occupational and Environmental Health 40:141-143 [#1864].	Summarizes case of 43-year-old woman who had lived near an asbestos factory between the ages of five and seven. Notes that white dust from the factory settled on houses and, after heavy winds, floors and furniture had to be cleaned.
Asbestos in buildings	1977	[Ban on asbestos-based linings in dwellings], Archives des Maladies	

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CATEGORY	DATE	ARTICLE	COMMENTS
		Professionnelles de Medecine due Travail et de Securite Sociale 38:747-748 [Source G; #4428].	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 55 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/55

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 56 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1977	D.R. Bowes, A.M. Langer and A.N. Rohl, Nature and range of mineral dusts in the environment, Philosophical Transactions of the Royal Society 286:593-610.	
Nonoccupational mesothelioma	1977	L. Bruckman, R.A. Rubino and B. Christine, Asbestos and mesothelioma incidence in Connecticut, Journal of the Air Pollution Control Association 27(2):121-126, February [#2224].	Reviews data on 133 cases of mesothelioma between 1935 and 1972 and finds only four with known exposure to asbestos and eight with possible exposure, although complete occupational histories were not available. States that rapid rise in Connecticut's mesothelioma incidence rate closely follows increase in state's cumulative asbestos consumption and suggests linearly increasing cause-effect relationship. Criticizes practice of "explosive demolition" of buildings which have been fireproofed and/or insulated with asbestos-containing materials as the most significant future source of asbestos emissions.
Neighborhood exposure	1977	D. Davies, Community exposure to asbestos, Lancet 2(8044):924, October 29 [Source I: #4821].	
Asbestos in buildings; abatement	1977	S.D. Fodero, Removal and disposal of an environmental carcinogen: Asbestos,	Provides information on removal and disposal of asbestos from Yale University's Art and Architecture Building, including procedural details of worker education and protection and

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CATEGORY	DATE	ARTICLE	COMMENTS
		Journal of Environmental Health 40(3):133-137, November/December [Source G; #4368].	asbestos clean-up operations.
Nonoccupational mesothelioma; neighborhood exposure; asbestos in buildings	1977	W.J. Nicholson, Cancer following occupational exposure to asbestos and vinyl chloride, Cancer 39(4):1792-1801, April [#2246].	Reviews literature on neighborhood and household contact cases of mesothelioma. Summarizes study on asbestos contamination in building air-supply systems. Notes that no contamination was demonstrated in buildings in which cementitious asbestos spray was used. States that effective filtration procedures are not currently developed that could be used in office buildings to remove any circulating asbestos. Recommends that effective procedures be developed for use by building maintenance personnel to minimize dissemination of asbestos fibers.
Neighborhood exposure; asbestos in buildings	1977	W.J. Nicholson, Occupational and environmental standards for asbestos and their relation to human disease, Origins of Human Cancer, Book C (H.H. Hiatt, J.D. Watson and J.A. Winston, editors); Cold Spring Harbor Laboratory, pp. 1785-1796 [#2704].	States that concentrations of asbestos from 100 ng to above 1000 ng have been recorded in homes of asbestos workmen and that in areas surrounding asbestos factories and mines, concentrations in the hundreds of nanograms were common, especially downwind from source. Discusses asbestos contamination of buildings and notes need for effective means of sealing asbestos-sprayed areas where surface erosion is predominant problem, for effective means of removing asbestos material where general deterioration is occurring and for a set of procedural standards for use by building maintenance personnel.

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 57 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/57

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 58 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1977	A.N. Rohl, A.M. Langer and I.J. Selikoff, Environmental asbestos pollution related to the use of quarried serpentine rock, Science 19:1319-1322.	
Asbestos in buildings; abatement; dust counts	1977	R.N. Sawyer, Asbestos exposure in a Yale building: Analysis and resolution, Environmental Research 13:146-169 [#4370].	Details procedures used in removing asbestos from Art and Architecture Building at Yale and presents data obtained from 200 of 500 air samples during surveillance, experimentation and asbestos removal. States that measured asbestos fiber concentrations exceeded OSHA's allowable limits in some situations, in all cases were above ambient city levels and indicated potentially carcinogenic asbestos exposures in many. Concludes that Yale study provides example for evaluation of similar asbestos contamination problems and for their resolution by controlled removal of contamination source.
Nonoccupational mesothelioma; neighborhood exposure	1977	I.J. Selikoff, Cancer risk of asbestos exposure, Origins of Human Cancer, Book C (H.H. Hiatt, J.D. Watson, J.A. Winsten, editors); Cold Spring Harbor Laboratory, pp. 1765-1784 [#2705].	Household-contact mesothelioma may well turn out to be common problem in future given likelihood of longer period of clinical latency than for occupationally exposed cases, but it is not known whether neighborhood disease cases are likely to be frequent or uncommon. Low-level intermittent or long-term exposure bears less risk than more intense occupational exposure but affects a vastly larger number of individuals.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 59 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
	1978	Asbestos in the underground: No cause for alarm, International Environment and Safety, p. 7.	
Asbestos in buildings; dust counts	1978	R.S. Barratt, Ambient air levels in perspective, Royal Society of Health Journal 1:25-26 and 49-50 [Source G; #4373].	Reviews concern over use of asbestos in buildings and discusses the applicable British regulations. Reports results of 234 air samples in schools and 61 air samples in homes and offices. States that well over 90 percent of samples showed concentrations of asbestos below 0.005 f/ml. Notes two instances of high levels of asbestos in air: one involving badly damaged asbestos board with visible dust on floor and the other during removal of asbestos ceiling containing essentially pure crocidolite. Concludes that airborne asbestos levels in buildings can be quite low and are acceptable on basis of limited data available.
Asbestos in buildings	1978	G. Bourne, Asbestos Contamination in School Buildings; Washington, DC: Public Interest Research Group [Source G; #4427].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 60 of 283

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; asbestos air pollution; dust counts	1978	L. Bruckman and R.A. Rubino, Monitored asbestos concentrations in Connecticut, Journal of the Air Pollution Control Association 28(12):1221-1226, December [Source G; #4374].	Discusses results of air asbestos survey conducted between late 1974 and early 1977, which involved approximately 40 monitoring sites, including an indoor swimming pool where an asbestos-containing insulating material was sprayed on the ceiling. Reports ambient chrysotile asbestos levels in urban and rural locations without asbestos emission sources were below 10 ng/m^3, but asbestos concentrations above 30 ng/m^3 were measured near industrial users of asbestos. Also reports that asbestos levels adjacent to toll plazas were elevated (10 to 25 ng/m^3 range), implicating asbestos emissions from vehicle brake lining decomposition as significant source of airborne asbestos fibers. States indoor air asbestos levels were below 1 ng/m^3 suggesting that risk to public health associated with deterioration of asbestos surface coatings applied indoors may not be as severe as previously thought.
Nonoccupational mesothelioma	1978	W.J. Chen and N.K. Mottet, Malignant mesothelioma with minimal asbestos exposure, Human Pathology 9(3):253-258, May [#1069].	Discusses case of mesothelioma in 59-year-old engineer. Establishes presence of pulmonary asbestos fibers by means of electron probe analysis. Explores occupational history and personal hobbies in detail, which includes period as manager in a fibrous glass plant and also job which involved inspection of building sites. Suggests that for some individuals, slight exposure to asbestos can result in malignant mesothelioma.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 61 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
	1978	The Cleaning of Premises and Plant in Accordance with Asbestos Regulations; London: Asbestosis Research Council Control and Safety Guide No. 9.	
Nonoccupational mesothelioma	1978	Arthur L. Frank, Occupational lung cancer, Pathogenesis and Therapy of Lung Cancer; New York: Marcel Dekker, pp. 25-51 [#1075].	States occupational mesothelioma is infrequently seen without significant asbestos exposure, although that exposure may be of short duration. Notes that in insulation workers somewhat less than half of mesotheliomas occur in pleural cavity and bulk of them in peritoneum; whereas if mesothelioma is result of nonoccupational exposure to asbestos, the reverse of these proportions is found, which is thought to be from less intense exposure.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 62 of 283

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Nonoccupational mesothelioma; low-level asbestos exposure	1978	M. Kannerstein, J. Churg and W.T.E. McCaughey, Asbestos and mesothelioma: A review, Pathology Annual 13(1):81-129 [#2128].	States occurrence of mesothelioma among residents in vicinity of asbestos mine or mill was early observation, and occurrence of cases in family members of asbestos workers has been well-documented. Notes apparent obscuring of dose-response relationship at lower end of scale with mesothelioma as there may have been only a very brief or relatively light exposure. Presumes that even with very small doses, enough asbestos may reach the pleura to be effective in mesothelioma initiation. Concludes that although the existence of cancer hazard associated with general community asbestos air pollution has not been proven, the increasing evidence of importance of indirect occupational, neighborhood and family contact must be taken into account.
Nonoccupational mesothelioma	1978	R.W. Miller, Environmental causes of cancer in childhood, Advances in Pediatrics 25:97-119 [#2137].	Notes reports of neighborhood and family cases of mesothelioma, but states that mesotheliomas occurring in persons under 20 years of age are apparently not due to asbestos and are historically unlike those produced by this agent. Remarks, though, that children with asbestos in home or neighborhood may be especially prone to carcinogenicity of cigarette-smoking later in life.

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CATEGORY	DATE	ARTICLE	COMMENTS
Air sampling techniques	1978	P. Sebastien, M.A. Billon, X. Janson, G. Bonnaud and J. Bignon, Use of the transmission electron microscope (TEM) for the measurement of asbestos contaminations, Archives des Maladies Professionnelles 39:229-248.	
Asbestos air pollution	1978	K.R. Spurny and W. Stober, Asbestos measurements in remote ambient air, Clean Air: The Continuing Challenge; Ann Arbor, MI: Ann Arbor Science Publishers.	
Nonoccupational mesothelioma	1978	N.J. Vianna and A.K. Polan, Nonoccupational exposure to asbestos and malignant mesothelioma in females, Lancet 1:1061-1063 [#2164].	Reports on review of 65 females reported to have died from mesothelioma in New York between 1967 and 1977, of which 52 were histologically confirmed. Finds 15 patients with some exposure to asbestos, six occupationally, eight through household contact and one by residence near an asbestos factory. Notes that in this study, husband's occupation was clearly the most important risk factor (calculated risk factor of 10) and suggests that simple preventive measures, directed at how and where work clothes are laundered, might greatly reduce the frequency of malignant mesothelioma.

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 63 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/63

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 64 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings	1979	Asbestos hazard in schools, subject of state, federal study, Texas Medicine 75(10):10, October [Source G; #4684].	
Asbestos air pollution	1979	D.V. Bates, Community air pollution in Canada: A review and predictions for the 1980s, Canadian Medical Association Journal 120(10):1252-1256, May 19 [Source I; #4705].	
	1979	J.J. Breen, Current EPA activities relating to asbestos, Dusts and Disease (J.M. Dement and R. Lemen, editors); Pathotox Publishers, Inc., pp. 507-509 [Source G; #4680].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 65 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Body burden; fiber type	1979	A. Churg and M.L. Warnock, Analysis of the cores of asbestos bodies from members of the general population: Patients with probable low-degree exposure to asbestos, American Review of Respiratory Disease 120:781-786 [#4375].	Analyzes asbestos bodies isolated from lungs of 21 patients who had 300 to 9,000 such bodies per gram of lung tissue. Notes that occupational histories revealed all but one had blue-collar jobs. Concludes commercial amosite/crocidolite asbestos forms the cores of most asbestos bodies in manual laborers in the general population and the source is usually occupational. Speculates on why chrysotile cores were not found since 93 percent of asbestos used in United States is chrysotile.
Asbestos air pollution	1979	W.C. Cooper, J. Murchio, W. Popendorf and H.R. Wenk, Chrysotile asbestos in a California recreational area, Science 206:685-688.	
	1979	K. Frostrom, Results of an examination of 410 building workers exposed to asbestos dust, Arhiv za Higijenu Rada I Toksikologiju 30 (Supplement):845-846.	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 66 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Neighborhood exposure	1979	E.C. Hammond, L. Garfinkel, I.J. Selikoff and W.J. Nicholson, Mortality experience of residents in the neighborhood of an asbestos factory, Annals of the New York Academy of Sciences 330:417-422 [#3997].	Describes study of residents living in neighborhood of amosite asbestos factory, "obviously an extremely light exposure as compared with the exposure of men working in the factory," and discusses causes of death for these residents compared to those in a similar neighborhood without an asbestos factory. Finds that with respect to total deaths, deaths from cancer (all sites combined) and lung cancer, mortality experience was slightly worse for neighborhood without asbestos factory than for neighborhood next to one. Also reports no deaths from peritoneal mesothelioma and just one death from pleural mesothelioma occurred during 15-year period studied (1962-1976), the latter in an electrician who died in 1966.
Asbestos air pollution	1979	J.R. Lakowicz, Can human exposure to airborne and injected particulates increase our risk from exposure to environmental carcinogens? Journal of Environmental Pathology and Toxicology 2(6):1433-1437, July-August.	

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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos cement; fiber release	1979	W. Lohrer, Emissions of asbestos from asbestos-cement and flooring, Staub-Reinhalt Luft 39(11):417-422.	
Asbestos in buildings; abatement	1979	W.C. McCrone, Evaluation of asbestos in insulation, Proceedings of ACGIH Symposium, Des Plaines, Illinois; American Conference of Governmental Industrial Hygienists, pp. 5-9 [#4376].	Discusses techniques for analyzing building materials for asbestiform materials. Notes that removal is very costly and could, in some cases, actually increase the hazard, so that leaving well enough alone should be the recommendation unless contraindicated, for example, by high friability or a high probability of disturbance and then encapsulation or isolation should be considered.
Nonoccupational mesothelioma; childhood exposure	1979	R.W. Miller, Advances in understanding causes of childhood cancer, Pediatric Annals 8(12):710-715, December [#2091].	Includes brief paragraph on asbestos, stating that although asbestos does not cause cancer during childhood, exposures during childhood can cause mesothelioma decades later, citing case report of mesothelioma in 34-year-old daughter of shipyard insulator.

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 67 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/67

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 68 of 283

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; dust counts	1979	W.J. Nicholson, E.J. Swoszowski, A.N. Rohl, J.D. Todaro and A. Adams, Asbestos contamination in United States schools from use of asbestos surfacing materials, Annals of the New York Academy of Sciences 330:587-596 [Source G; #4377].	Summarizes survey of asbestos in New Jersey schools, previously reported to National Institute for Environmental Health Sciences (see Nicholson et al., 1978, above), and presents data on air samples taken in ten schools (located in New Jersey, Massachusetts and New York) which had visible damage to asbestos surfaces. Concludes that if damage to or erosion of any asbestos-containing sprayed material is evident, increased asbestos air concentrations may exist; as such damage is likely to recur or to continue, asbestos air concentrations in excess of background (50 ng/m^3) may be expected; and where visible damage or erosion is not evident, asbestos air concentrations are likely to be little different from background. Mentions literature on nonoccupational mesothelioma. Notes that recent measurements of asbestos concentrations in homes of workers, around sites where asbestos materials were sprayed or in neighborhoods surrounding uncontrolled asbestos-processing facilities usually yield values in hundreds of ng/m^3, with concentrations only rarely exceeding 1000 ng/m^3, suggesting that long-term exposure of many children to concentrations above 100 ng/m^3 may not be without later risk of asbestos disease.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 69 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Sprayed asbestos; asbestos in buildings	1979	W.J. Nicholson, Regulatory actions and experiences in controlling exposure to asbestos in the United States, Annals of the New York Academy of Sciences 329:293-303 [Source I; #4872].	
Asbestos in buildings; abatement	1979	R.S. Prust, Future problems to be anticipated: Demolition, repair and disposal, Annals of the New York Academy of Sciences 330:545-547 [Source G; #4378].	Represents Johns-Manville position on problem of asbestos in buildings. Concludes that under normal circumstances, asbestos-containing ceilings need present no health hazard; therefore, any action that may be required should be determined on an individual basis.
Asbestos in buildings; dust counts	1979	R.N. Sawyer, Indoor asbestos pollution: Application of hazard criteria, Annals of the New York Academy of Sciences 330:579-586 [#4379].	Presents ranges of asbestos fiber levels found in buildings by activity classification and applies present (1976) and proposed (1975) OSHA limits and NIOSH recommended limits (1977) to these ranges. Finds more significant contamination levels are associated with disturbance of friable asbestos-containing materials and that levels found in some situations exceed those considered potentially carcinogenic.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 70 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings	1979	R.N. Sawyer, Non-occupational indoor asbestos pollution, Dust and Disease (R. Lemen and J.M. Dement, editors); Pathotox Publishers, Inc., pp. 175-179 [Source G; #4380].	Briefly reviews data on exposure of nonoccupational populations within asbestos-contaminated structures. Notes such situations are not uncommon and involve asbestos exposures of variable intensity and duration in highly diverse populations. Documented contamination levels in some cases exceed those considered potentially carcinogenic.
Asbestos in buildings; abatement	1979	R.N. Sawyer and E.J. Swoszowski, Asbestos abatement in schools: Observations and experiences, Annals of the New York Academy of Sciences 330:765-775 [#4381].	Discusses observation of more than 50 abatement programs. Notes performance was generally considered satisfactory but describes some of the problems encountered, including inadequate information at school board level, difficulty in rapidly locating competent bulk analysis, and deficiencies in contractor application of OSHA and EPA regulations.
Asbestos in buildings	1979	School asbestos program, Journal of the Iowa Medical Society 69(6):248-249 [Source G: #4677].	
Asbestos in buildings; dust counts	1979	P. Sebastien, M.A. Billon, G. Dufour, A. Gaudichet and G. Bonnaud, Levels of asbestos air pollution in some environmental situations, Annals of the New York Academy of Sciences 330:401-415 [#4382].	Includes report on 160 airborne samples obtained inside 33 Paris buildings sprayed with asbestos-containing materials, including schools, offices, banks, libraries, post offices, theaters, universities, sheds, workshops, laboratories and residences. Indicates asbestos air levels in the range of 0.1 to 1000 ng^{-3}, except for one count of 100,000 ng^{-3} of amphibole fibers. Notes that 11 of 12 buildings displaying visible signs of spray degradation

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CATEGORY	DATE	ARTICLE	COMMENTS
			were considered polluted, yet 11 polluted buildings were also found among 21 that demonstrated no evidence of spray degradation. Also notes that contact of air with asbestos insulating board has led to a significant increase in asbestos air pollution. States that Conseil Superieur d'Hygiene Publique de France considers levels of indoor air concentrations higher than 50 ng^{-3} to represent polluted situations and has proposed an ambient air quality standard of 50 ng^{-3} inside buildings sprayed with asbestos-containing materials.
Asbestos in buildings	1979	K.D. Silver, Asbestos in school buildings: Results of a nation-wide survey, Annals of the New York Academy of Sciences 330:777-786 [Source G; #4383].	Reports results of mail survey of the 50 state governors undertaken by Massachusetts Public Interest Research Group in February 1977 to gauge level of action on part of public officials around the nation concerning the possible hazards of sprayed-on asbestos ceiling material in school buildings. Notes that 25 states responded to survey. Also discusses federal involvement in problem, methodologies for asbestos identification, costs of correction and public education. States that Massachusetts has set action level of 0.04 f/cc for school buildings with asbestos-containing ceilings.
Asbestos in buildings	1979	R.J. Smith, State officials alerted to school asbestos hazard, Science 204:285, April 20 [Source I: #4683].	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 71 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/71

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings	1979	C.M. Spooner, Asbestos in schools -- A public health problem, New England Journal of Medicine 301(14):782-783, October 4 [Source G; #4401].	
Asbestos air pollution	1979	K.P. Spurny, W. Stober, H. Opiela and G. Weiss, On the evaluation of fibrous particles in remote ambient air, The Science of the Total Environment 11:1-40 [Source G; #4403].	
Asbestos air pollution	1979	B.E. Suta and R.J. Levine, Non-occupational asbestos emissions and exposures; Asbestos, Volume I, pp. 171-205 [Source G; #4402].	

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CATEGORY	DATE	ARTICLE	COMMENTS
Nonoccupational mesothelioma; fiber type	1980	E.D. Acheson and M.J. Gardner, Asbestos: Scientific basis for environmental control of fibers, Biological Effects of Mineral Fibres, Volume 2; Lyon: International Agency for Research on Cancer Scientific Publications No. 30, pp. 737-754 [#783].	Discusses dose-response relationships of asbestos-related diseases based on the medical/scientific literature. States that data so far available for mesothelioma are consistent with a linear hypothesis, although in none of the studies are there sufficient data to define precisely the shape of the dose-response relationship. Notes reports of neighborhood and household cases which suggest that, for practical purposes, there is no safe threshold for amphiboles with respect to pleural mesothelioma. Also notes that mesothelioma after exposure to small doses of chrysotile has been reported very rarely.
Asbestos in buildings	1980	An update on asbestos, Journal of School Health 50(6):356, August [Source G; #4681].	
Maintenance workers; lung function; x-ray abnormalities	1980	L. Awad, P. Lazar, L. DiMenza, J. Bignon and G. Bonnaud, An attempt to determine a medium-term, low-dose asbestos exposure indicator on the basis of clinical and radiological lung changes, Biological Effects of Mineral Fibres, Volume 2; Lyon: International Agency for Research on Cancer Scientific Publications No. 30, pp. 737-754	Analyzes three groups of people working on buildings in Paris with insufficient protection against asbestos: group one comprised people working directly in contact with sources of asbestos in ceilings, lagging, etc. (maintenance and custodial); group two consisted of people who had worked for at least 10 years in such buildings but had no specific exposure; third group composed of people whose only period of exposure had occurred 15 years previously during period when buildings were being constructed and who now worked in nonasbestos-containing buildings. Reports no differences in three groups on clinical examination, but functional and radiological examinations revealed that

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 73 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/73

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 74 of 283

CATEGORY	DATE	ARTICLE	COMMENTS
		[#4386].	cough, sputum, breathlessness and diaphragmatic straightness more common in group one and chest pain more common in groups one and two. Notes that after adjusting for variables such as smoking, obesity, past and present exposure to asbestos and for age and sex, differences between group one and the other two groups remain significant. States, however, that no relationship was found between any of the described anomalies and length of exposure measured by duration of presence in the buildings.
	1980	E.J. Calabrese, Pollutants and High Risk Groups: The Biological Basis of Increased Human Susceptibility to Environmental and Occupational Pollutants; New York: Wiley-Interscience.	
Asbestos in buildings	1980	J. Elliott, Experts cite paralysis of asbestos exposure control efforts, Journal of the American Medical Association 243(3):211-213 and 219, January 18 [Source I; #4678].	

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CATEGORY	DATE	ARTICLE	COMMENTS
Nonoccupational mesothelioma; neighborhood exposure	1980	G.R. Epler, M.X. FitzGerald, E.A. Gaensler and C.B. Carrington, Asbestos-related disease from household exposure, Respiration 39:229-240 [#800].	Reports cases of four persons with asbestos-related disease from household exposure, one of which was a pleural mesothelioma in a wife of an asbestos factory worker. Presents table listing neighborhood and household-exposed cases of mesothelioma in the literature. States there are indications that both the occurrence of mesothelioma and the latent period are dose-related. Notes that neighborhood cases suggest threshold is low, but it is possible that, rather than a real threshold, the very lowest doses have so long a latent period that it exceeds man's normal lifespan.
Asbestos in buildings	1980	G.A. Faich, Asbestos hazard evaluation in Rhode Island schools, American Journal of Public Health 70(2):162-163, February [#4771].	Reviews survey to identify and abate spray-on asbestos hazards in schools in Rhode Island, conducted between October 1977 and May 1978. Reports that of 326 target schools, 24 (8 percent) contained material confirmed to be spray-on asbestos, and overt hazards requiring major corrective measures were found in 4 (1 percent) of the target schools.

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 75 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/75

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 76 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; dust counts	1980	K.F. Irving, R.G. Alexander and H. Bavley, Asbestos exposures in Massachusetts public schools, American Industrial Hygiene Association Journal 41:270-276, April [#4387].	Discusses survey of public school buildings conducted by special Massachusetts legislative commission on asbestos and development of rating system to reflect degree of potential health hazard from sprayed-on asbestos materials. Notes that air samples collected from 1973 schools identified as containing asbestos were mostly below predetermined background level of 0.04 f/cc, but air sampling technology has limited applicability to quantification of public exposures to asbestos. Reports that sprayed-on asbestos was present in 12 percent of surveyed schools, and 3 percent required long-term control recommendations.
	1980	Is there a health hazard in using asbestos material for plugging holes in masonry? British Medical Journal 2:371, August 2 [#4200].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 77 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; air sampling techniques	1980	J.M. Le Guen, Rapid quantitative analysis of airborne asbestos by SEM and TEM with special reference to a survey of public buildings, Proceedings of the Third Colloquium on Dust Measuring Technique and Strategy, Cannes, 10-12 June 1980; Paris: Association Francaise de l'Amiante, November, pp. 213-214.	
Maintenance workers; x-ray abnormalities	1980	R. Lilis, S. Daum, H. Anderson, G. Andrews and I.J. Selikoff, Asbestosis among maintenance workers in the chemical industry and in oil refinery workers, Biological Effects of Mineral Fibres, Volume 2; Lyon: International Agency for Research on Cancer Scientific Publications No. 30, pp. 795-810 [#830].	Reports on examination of 185 maintenance workers in chemical plant and 137 refinery workers. Notes that in 45 maintenance workers, asbestos exposure ranging from minimal to significant had occurred in the past, preceding employment in the chemical plant. Classifies spackling, shingle trimming, minimal intermittent brake repair and residence in neighborhood of asbestos products manufacturing plant as minor exposure. Finds relatively frequent chest x-ray abnormalities, pleural changes being more prevalent than parenchymal fibrosis, characteristic of relatively less intense asbestos exposure. Notes that while progression to severe disabling parenchymal asbestosis is less probable under such circumstances, risk for lung cancer and mesothelioma remains.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 78 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1980	W.J. Nicholson, A.N. Rohl, I. Weisman and I.J. Selikoff, Environmental asbestos concentrations in the United States, Biological Effects of Mineral Fibres (J.C. Wagner, editor); Lyon, France: International Agency for Research on Cancer Scientific Publications No. 30: Volume 2, pp. 823-827 [Source G; #4388].	
	1980	K. Rodelsperger, H.-J. Wortocoitz and H.G. Krieger, Estimation of exposure to asbestos-cement dust on building sites, Biological Effects of Mineral Fibers (J.C. Wagner, editor); Lyon, France: International Agency for Research on Cancer Scientific Publications No. 30, pp. 845-854 [Source I; #4826].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 79 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buldings	1980	J.T. Schirripa, Evaluating the cancer risk of asbestos, Occupational Health and Safety, pp. 45-47, July/August [Source G; #4390].	
Bulk sample analysis	1981	H.W. Dunn and J.H. Stewart, Jr., Quantitative determination of chrysotile in building materials, Microscope 29(1):39-45 [Source G; #4665].	
Abatement	1981	J.D. Elias, Dry removal of asbestos, American Industrial Hygiene Association Journal 42(8):624-625, August [Source G; #4666].	
	1981	C.P. de Fonseka, Asbestos fibres and the environment, British Medical Journal 282(6277):1707, May 23 [#4194].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 80 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings	1981	D. Gloag, Asbestos fibres and the environment, British Medical Journal 282(6264):623-626, February 21 [Source I; #4750].	
Abatement	1981	Guide Specifications for the Abatement of Asbestos Release from Spray-or-Trowel-Applied Materials in Buildings and Other Structures; Washington, DC: Association of the Wall/Ceiling Industries International.	
Asbestos air pollution; neighborhood exposure	1981	R. Ing, R.A. Lemen, G. Carson, A. Kelter, J. Sarn and M. Gray, Community asbestos exposure in Globe, Arizona, Journal of Pediatrics 99(3):409-411, September [Source I; #4843].	

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CATEGORY	DATE	ARTICLE	COMMENTS
Bulk sample analysis	1981	W.S. Kim, J.W. Carter and R.E. Kupel, Quick screening test for asbestos, American Industrial Hygiene Association Journal 42:198-201, March [Source G; #4669].	
Asbestos in buildings	1981	J.M. Le Guen and G. Burdett, Asbestos concentrations in public buildings -- A preliminary report, Annals of Occupational Hygiene 24(3):273-280 [Source G; #4670].	
Asbestos in buildings	1981	L.F. Novick, C. Rice, M.A. Freedman and D. Jillson, Asbestos in Vermont schools: Findings of a statewide on-site investigation, American Journal of Public Health 71(7):744-746, July [Source G: #4672].	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 81 of 283
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	1981	D.K. Verma and C.G. Middleton, Exposure in the ceiling and wall texture process, Occupational Health and Safety, pp. 21-22 and 24, March [Source G; #4673].	
Body burden; lung cancer	1982	A. Andrion, E. Pira, T. Fadda and F. Mollo, Lung asbestos bodies and pulmonary cancer in subjects without occupational exposure, Tumori 68:359-364 [Source G; #4657].	
Asbestos in buildings; bulk sample analysis	1982	C.A. Baldwin, H.J. Beaulieu and R.M. Buchan, Application of the K^2 asbestos screening test in Colorado schools, American Industrial Hygiene Association Journal 43(8):602-604, August [Source I; #4632].	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 82 of 283
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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; bulk sample analysis	1982	C.A. Baldwin, H.J. Beaulieu, R.M. Buchan and H.H. Johnson, Asbestos in Colorado Schools, Public Health Reports 97(4):325-331, July-August [Source I; #4631].	
Asbestos in buildings; dust counts	1982	J.W. Bozzelli and J.F. Russell, Airborne asbestos levels in several school buildings before and after bulk asbestos removal, International Journal of Environmental Studies 20(1):27-30 [Source G; #4634].	
Asbestos in buildings	1982	M.L. Charette, Arizona's school asbestos program, Journal of Environmental Health 45(3):135-137, November/December [Source G; #4637].	

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ACL Doc 24874 · Page 83 of 283
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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1982	S. Dobbertin, Health effects on the general population, Asbestos, Health and Society: Proceedings of the World Symposium on Asbestos, May 25-27, 1982; Montreal: Canadian Asbestos Information Centre, pp. 323-327 [Source G; #4786].	
Bulk sample analysis	1982	H.W. Dunn and J.H. Stewart, Jr., Determination of chrysotile asbestos in building materials by x-ray diffractometry, Analytical Chemistry 54(7):1122-1125 [Source G; #4660].	
Asbestos air pollution	1982	P.E. Enterline, Cancer caused by asbestos air pollution in the United States, Asbestos Health and Society: Proceedings of the World Symposium on Asbestos, May 25-27, 1982; Montreal: Canadian Asbestos Information Centre, pp. 328-336 [Source G; #4787].	

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ACL Doc 24874 · Page 84 of 283
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 85 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos cement; fiber release	1982	W. Felbermayer, Environmental pollution by weathering of asbestos-cement sheets, Asbestos, Health and Society: Proceedings of the World Symposium on Asbestos, May 25-27, 1982; Montreal: Canadian Asbestos Information Centre, pp. 319-322 [Source G; #4785].	
Asbestos air pollution; risk assessment	1982	J.R. Hickman, R. Ross, R.W. Lanting, P.W. Preuss, U. Mani, S. Bobbertin, P.E. Enterline, J. Siemiatycki, H.A. Anderson, M. Fischer, I.T.T. Higgins and M. Neuberger, Panel 4: Is the general population at risk from cancer due to asbestos exposure?; Montreal: Canadian Asbestos Information Centre, pp. 363-383 [Source G; #4790].	

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ACL Doc 24874 · Page 86 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; abatement; dust counts	1982	R.W. Lanting, Levels of exposure of the general population from industrial activities (demolition and wastes) and buildings, Asbestos, Health and Society; Montreal: Canadian Asbestos Information Centre, pp. 295-305 [Source G; #4783].	
Maintenance workers	1982	R. Lilis, Asbestos disease with maintenance and repair, Asbestos, Health and Society; Montreal: Canadian Asbestos Information Centre, pp. 117-135.	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 87 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1982	W. Lohrer, Air pollution from asbestos and other fibrous dusts: A survey of the general problem, Staub-Reinhalt Luft 41:387-395.	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 88 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1982	M. Ross, Levels of exposure of the general population from natural sources, Asbestos, Health and Society; Montreal: Canadian Asbestos Information Centre, pp. 288-294 [Source G; #4782].	
Asbestos in buildings	1982	P. Sebastien, J. Bignon and M. Martin, Indoor airborne pollution: From the ceiling and the floor, Science 216(4553):1410-1412, June 25 [Source G; #4691].	
Neighborhood exposure; dust counts	1982	J. Siemiatycki, Mortality in the general population in asbestos mining areas, Asbestos, Health and Society; Montreal: Canadian Asbestos Information Centre, pp. 337-348 [Source G; #4788].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 89 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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CATEGORY	DATE	ARTICLE	COMMENTS
Bulk sample analysis	1982	R.B. Sorstokke, [Application of the K^2 Asbestos Screening Test in Colorado Schools], American Industrial Hygiene Association Journal 43(11):A30, November [Source G; #4692].	
Asbestos in buildings	1982	L.P. Stavisky, State responsibility for the control of asbestos in the schools, Journal of School Health 52(8):358-364, August [Source G; #4689].	
Body burden	1982	R.H. Steele and K.J. Thomson, Asbestos bodies in the lung: Southampton (UK) and Wellington (New Zealand), British Journal of Industrial Medicine 39:349-354 [Source G; #4693].	
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ACL Doc 24874 · Page 90 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution; lung cancer	1982	J.E. Vena, Air pollution as a risk factor in lung cancer, American Journal of Epidemiology 116(1):42-56, July [Source G; #4694].	
Bulk sample analysis	1982	J.S. Webber, A. Pupons and J.M. Fleser, Quality control testing for asbestos analysis with synthetic bulk samples, American Industrial Hygiene Association Journal 43(6):427-431, June [Source I; #4696].	
Asbestos in buildings	1982	R.M. Wheater, Asbestos ceiling panels, Journal of the American Medical Association 247(19):2716, May 21 [Source G; #4656].	

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ACL Doc 24874 · Page 91 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
Risk assessment	1983	R. Beaudry, An overview of risk assessment and the legal process, Proceedings of a Symposium on the Assessment and Perception of Risk to Human Health in Canada (J.T. Rogers and D.V. Bates, editors), Ottawa, ON: Royal Society of Canada, pp. 191-200.	
Sprayed asbestos	1983	S.S. Chissick, Sprayed blue asbestos fire insulation -- A case study, Asbestos, Volume 2: Properties, Applications and Hazards (S.S. Chissick and R. Derricott, editors); Chichester, UK: John Wiley & Sons, pp. 267-307 [Source G; #4648].	

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CATEGORY	DATE	ARTICLE	COMMENTS
Nonoccupational mesothelioma; risk assessment	1983	P.E. Enterline, Risk assessment of asbestos carcinogenicity in nonoccupationally exposed populations, International Colloquium on Fibrous Dusts: Measurements, Effects, Prevention; Dusseldorf: VDI-Verlag GmbH (No. 475), pp. 297-304.	
Asbestos in buildings; risk assessment	1983	M.E. Findley, V.E. Rose, G.R. Cutter and R.A. Windsor, An assessment of the Environmental Protection Agency's asbestos hazard evaluation algorithm, American Journal of Public Health 73(10):1179-1181, October [Source G; #4639].	

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ACL Doc 24874 · Page 93 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
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Nonoccupational mesothelioma	1983	M.J. Gardner, Tumour incidence after asbestos exposure in Great Britain with special reference to the cancer risk of the non-occupational population, International Colloquium on Fibrous Dusts; Dusseldorf: VDI-Verlag GmbH (No. 475), pp. 185-190 [Source G; #4640].	
Asbestos in buildings	1983	G.G. Gilbert and C.S. Scatarige, Update on asbestos in schools, Journal of School Health 53(3):212-213, March [Source I; #4842].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 94 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
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CATEGORY	DATE	ARTICLE	COMMENTS
Bulk sample analysis	1983	F.I. Grunder, F.C. Shelly and A.E. Moffitt, Jr., [Quick screening test for asbestos], American Industrial Hygiene Association Journal 44(3):B27-B28, March [Source G; #4653].	
Risk assessment	1983	R.E. Kasperson and J.X. Kasperson, Determining the acceptability of risk: Ethical and policy issues, Proceedings of a Symposium on the Assessment and Perception of Risk to Human Health in Canada (J.T. Rogers and D.V. Bates, editors), Ottawa, ON: Royal Society of Canada, pp. 135-'56.	
Asbestos in buildings	1983	M.D. Lebowitz, Health effects of indoor pollutants, Annual Review of Public Health 4:203-221 [Source G; #4716].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 95 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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CATEGORY	DATE	ARTICLE	COMMENTS
Nonoccupational mesothelioma	1983	F.D.K. Liddell, Tumour incidence after asbestos exposure in the general population of Canada, International Colloquium on Fibrous Dusts, Measurements, Effects, Prevention; Dusseldorf: VDI Verlag GmBh (No. 475), pp. 179-184 [Source G; #4641].	
Risk assessment	1983	A.B. Miller, Epidemiology in the assessment of risk, Proceedings of a Symposium on the Assessment and Perception of Risk to Human Health in Canada (J.T. Rogers and D.V. Bates, editors), Ottawa, ON: Royal Society of Canada, April, pp. 53-68.	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 96 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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CATEGORY	DATE	ARTICLE	COMMENTS
Sprayed asbestos; abatement	1983	N.W. Paik, R.J. Walcott and P.A. Brogan, Worker exposure to asbestos during removal of sprayed material and renovation activity in buildings containing sprayed material; American Industrial Hygiene Association Journal 44(6):428-432, June [Source G; #4642].	
Risk assessment; dose response	1983	J. Peto, Dose and time relationships for asbestos-related cancers and risk assessment in the general population, International Colloquium on Fibrous Dusts: Measurements, Effects, Prevention; Dusseldorf: VDI-Verlag GmbH (No. #475), pp. 309-312.	
Abatement	1983	Risks of asbestos removal, Lancet 2(8361):1244, November 26 [Source G; #4651].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 97 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
Risk assessment	1983	I.J. Selikoff, Multiple factor interaction in environmental disease: Potential for risk modification and risk reversal, Proceedings of Symposium on the Assessment and Perception of Risk to Human Health in Canada (J.T. Rogers and D.V. Bates, editors); Ottawa, ON: Royal Society of Canada, April, pp. 71-80.	
Asbestos air pollution	1983	B. Singh and J.P. Thouez, Ambient air concentration of asbestos fibres, dust content and mortality: The case of Asbestos, Quebec, Ecology of Disease 2(4):343-351 [Source G; #4700].	
Asbestos in buildings	1983	J.D. Spengler and K. Sexton, Indoor air pollution: A public health perspective, Science 221(4605):9-17, July 1 [Source G; #4638].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 98 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
Neighborhood exposure; lung cancer	1983	W. Sturm, [Respiratory tract malignant diseases from community asbestos exposure], Zeitschrift fuer Enkrankungen der Atmuags Organe 161:240-247 [Source G; #4654].	
Risk assessment	1983	J.C. Wagner, The risk assessment of asbestos carcinogenicity in the normal population: Animal to human correlations, International Colloquium on Fibrous Dusts: Measurements, Effects, Prevention; Dusseldorf: VDI-Verlag GmbH (No. 475), pp. 305-308.	
Maintenance workers; asbestos in buildings	1984	J.R. Balmes, R. Warshaw, S. Chong and K.H. Kilburn, Effects of occupational exposure to asbestos containing materials in public schools, American Review of Respiratory Disease 124 (4 Supplement): A174, April [Source G; #4649].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 99 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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CATEGORY	DATE	ARTICLE	COMMENTS
Abatement	1984	D.E. Brown, Asbestos abatement -- Building clearance considerations, Microscope 32(3):178-179, Third Quarter [Source G; #4775].	
Asbestos air pollution; dust counts	1984	G.J. Burdett, The measurement of airborne asbestos in the non-occupational environment; University of Leeds Hodsworth School of Applied Sciences.	
Asbestos air pollution; dust counts	1984	G.J. Burdett, J.M. Guen and A.P. Rood, Mass concentrations of airborne asbestos in the non-occupational environment -- A preliminary report of UK measurements, Annals of Occupational Hygiene 28(1):31-38 [Source G; #4643].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 100 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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	1984	E.J. Chatfield, Analysis of asbestos in environmental samples, International Conference on Environmental Contamination; Edinburgh: CEP Consultants Ltd.	
	1984	E.J. Chatfield, Determination of Asbestos in Air and Water; Mississauga, ON: Ontario Research Foundation (Report TC147), pp. 1-55.	

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ACL Doc 24874 · Page 101 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

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Risk assessment	1984	E.A. Crouch and R. Wilson, Inter-risk comparisons, Assessment and Management of Chemical Risks (R.G. Tardiff, editor); Washington, DC: American Chemical Society.	
Asbestos air pollution	1984	B.T. Commins, Asbestos contamination of air, soil and water in perspective; London: Proceedings of the International Environmental Contamination Conference, Imperial College, July, pp. 21-29 [Source G; #4644].	
Abatement	1984	W.M. Ewing and W.H. Spain, Getting to the very fiber of industrial asbestos removal, Occupational Health and Safety, June, pp. 29-33 and pp. 60 and 68 [Source I; #4726].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 102 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; risk assessment	1984	D. Kern, Modified EPA algorithm needed re: Asbestos in schools, American Journal of Public Health 74(4):391-392, April [Source G; #4661].	
Asbestos in buildings	1984	J.M. Last, Health hazards of the indoor environment, Canadian Journal of Public Health 75(3):189-191, May/June [Source G; #4752].	
Asbestos in buildings; maintenance workers; mesothelioma	1984	R. Lilis, Y. Suzuki and I.J. Selikoff, Pleural and peritoneal mesothelioma related to asbestos exposure from maintenance and repair work in industrial, commercial and residential buildings, Sixth International Conference on Pneumoconiosis; Geneva: International Labour Office, Volume 2, pp. 799-809.	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 103 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1984	H. Marfels, K. Spurny, C.H.R. Boose, J. Schoermann, H. Opelia, W. Arthaus and G. Weiss, The measurement of fibrous dusts in the mabient air of the Federal Republic of Germany, Staub-Reinhalt Luft 44(6):259-263.	
Asbestos in buildings; dust counts	1984	J.S. Moorcraft and M.J. Duggan, Rate of decline of asbestos fibre concentration in room air, Annals of Occupational Hygiene 28(4):453-457 [Source G; #4662].	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 104 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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CATEGORY	DATE	ARTICLE	COMMENTS
Neighborhood exposure; asbestos cement; x-ray abnormalities	1984	D. Sever-Jurca, B. Stange and J. Mesic, The incidence of pulmonary and pleural changes as biological response to asbestos exposure in the neighborhood of asbestos-cement factory in Anhova, Slovenia, Yugoslavia, Sixth International Conference on Pneumoconiosis; Geneva: International Labour Office, Volume 2, pp. 775-778.	
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Neighborhood exposure; pleural plaques	1984	K. Yokoyama, K. Morinaga, J. Ohtsuka, T. Matsumura, G. Hillerdal and Y. Sera, Occupational and non-occupational pleural plaques in Sennan District, Sixth International Conference on Pneumoconiosis; Geneva: International Labour Office, Volume 2, pp. 790-798.	
Asbestos in buildings	1985	S. Altree-Williams and J.S. Preston, Asbestos and other fibre levels in buildings, Annals of Occupational Hygiene 29)3):357-363 [Source G; #4394].	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 105 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/105

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 106 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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Bulk sample analysis	1985	D.G. Bush and R.A. Schumacher, Analysis of chrysotile asbestos in bulk materials, Analytical Chemistry 54(11):1792-1795, September [Source G; #4635].	
Asbestos in buildings	1985	D.A. Chadwick, R.M. Buchan and H.J. Beaulieu, Airborne asbestos in Colorado public shcools, Environmental Research 36(1):1-13, February [Source G; #4396].	
Asbestos in buildings	1985	E.J. Chatfield, Airborne Asbestos Levels in Canadian Public Buildings; Mississauga, ON: Ontario Research Foundation.	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 107 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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Asbestos air pollution	1985	E.J. Chatfield, Asbestos measurements in workplaces and ambient atmospheres, Electron Microscopy in Forensic, Occupational and Environmental Health Sciences (S. Basu and J. Millette, editors); New York, NY: Plenum Publishing.	
Asbestos air pollution	1985	E.J. Chatfield, Measurement and interpretation of asbestos fibre concentrations in ambient air, Proceedings of the Fifth Colloquium on Dust Measuring Technique and Strategy (F. Baunach, editor); London: Asbestos International Association, pp. 269-296.	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 108 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

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Asbestos in buildings	1985	D.N. Dewees, Controlling Exposures to Asbestos in Buildings: The Ontario Royal Commission's Approach; Canada: University of Toronto, July [Source G; #4117].	
Asbestos in buildings	1985	W. Ellis and M. Leiff, Asbestos in buildings: What standards are needed? ASTM Standard News 13:44-47, June.	
	1985	R.B. Gammage, S.B. Kaye and V.A. Jacobs, Indoor Air and Human Health; Chelsea, MI: Lewis Publishers.	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 109 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
Nonoccupational mesothelioma; childhood exposure	1985	M. Kovalivker and A. Motovic, Malignant peritoneal mesothelioma in children: Description of two cases and review of the literature, Journal of Pediatric Surgery 20(3):274-275 [Source I; #4223].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 110 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1985	G. Litistorf, M. Guillemin, P. Buffat and F. Iselin, Ambient Air pollution by mineral fibers in Switzerland, Staub Reinhaltung der Luft 45(6):302-307.	
	1985	G. Litzistorf, M.P. Guillemin, P. Buffat and F. Iselin, Influence of human activity on the airborne fiber level in paraoccupational environments, Journal of the Air Pollution Control Association 35(8):836-837, August.	
Asbestos in buildings; dust counts	1985	J. Prentice, Rate of decline of asbestos fibre concentrations in room air, Annals of Occupational Hygiene 29(3):439-440 [Source G; #4118].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 111 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Abatement; dust controls	1985	J. Prentice and B. Gonsalves, Reproducibility of dust disturbance techniques during clearance sampling after asbestos removal, Annals of Occupational Hygiene 29(3):435-437 [Source G; #4119].	
Abatement; dust counts	1985	R.N. Sawyer, A.N. Rohl and A.M. Langer, Airborne fiber control in buildings during asbestos material removal by amended water methodology, Environmental Research 36(1):46-55, February [Source G; #4120].	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 112 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Abatement	1985	W.H. Spain, W.H. Ewing and E.M. Clay, Health and safety needs detailed in new asbestos abatement survey, Occupational Health and Safety 54(8):13-17, August [Source G; #4732].	
	1985	J.D. Spengler, Indoor air pollution, New England and Regional Allergy Proceedings 6(2):126-134, Spring.	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 113 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

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Abatement	1985	Technique for Asbestos Control in Buildings; Hamilton, ON: Canadian Centre for Occupational Health and Safety, August.	
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	1986	Asbestos and Other Natural Mineral Fibers; Geneva: World Health Organization International Programme on Chemical Safety, Environmental Health Criteria (IPCS 53).	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 114 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/114

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 115 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 116 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 117 of 283
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Abatement	1986	M.A. Karaffa, R.S. Amick, A. Crone and T.J. Powers, An evaluation of asbestos removal effectiveness: The potential for exposures, Asbestos: Its Health Risks, Analysis, Regulation and Control; Air Pollution Control Association (SP-57), pp. 59-70.	
Abatement	1986	M.D. Lowish, Common sense measures ensure profitable abatement, Occupational Health and Safety 55(4):69 and 72, April [Source I; #4731].	
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ACL Doc 24874 · Page 118 of 283
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asbestosclaims.law/library/24874/118

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Asbestos in buildings; abatement	1986	J.M. Paull, P.S.J. Lees and P.N. Breysse, Non-occupational exposure to asbestos in buildings: A practical risk management program, American Industrial Hygiene Association Journal 47(18):497-504, August [Source I; #4687].	
Abatement	1986	R.E. Sheriff, F.W. Boelter, R. Herrick, J. Wronski, B.A. Smith, G. Miller, D. Malzahn, M.G. May, P. Paulus, W. Ewing, E. Clay, J. Johnson and W. Cornils, American Industrial Hygiene Association Recommendations for Asbestos Abatement Projects; Akron, OH: American Industrial Hygiene Association, September [Source G; #4121].	

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ACL Doc 24874 · Page 119 of 283
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ACL Doc 24874 · Page 120 of 283
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Body burden; fiber type	1987	B.W. Case and P. Sebastien, Environmental and occupational exposures to chrysotile asbestos: A comparative microanalytical study, Archives of Environmental Health 42:185-191 [Source I; #4769].	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 121 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/121

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 122 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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ACL Doc 24874 · Page 123 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 124 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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Abatement	1987	R.G. Morse and R.N. Sawyer, Developing a comprehensive asbestos control program, Practices and Procedures in the Asbestos Abatement Industry; Lawrence, KS: University of Kansas National Asbestos Training Center.	
	1987	W.J. Nicholson, Airborne Levels of Mineral Fibers in the Nonoccupational Environment; New York, NY: Mt. Sinai School of Medicine Environmental Sciences Laboratory.	
Asbestos in buildings	1987	A.F. Oberta, Asbestos in buildings, ASTM Standard News 15:48-51, December.	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 125 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Abatement	1987	R.P. Ouelette, C.F. Dilks, W.C. Thompson, Jr., and P.N. Cheremisnoff, Asbestos Hazard Management; Lancaster, PA: Technomic Publishing Co.	
	1987	R. Pitt, Asbestos as an urban area pollutant, Journal of the Water Pollution Control Federation 60:1993-2001, November.	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 126 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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		Hygiene 31(2):227-232.	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 127 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution; pleural plaques	1988	M.A. Billon-Galland, G. Dufour, A. Gaudichet, C. Boutin and J.R. Viallat, Environmental airborne asbestos pollution and pleural plaques in Corsica, Annals of Occupational Hygiene 32 (Supplement 1):497-504.	
Asbestos in buildings	1988	D. Boucher, Second stage in the war against asbestos is about to be unleashed, Occupational Health and Safety 57(10):48, 51, 55-56, September [Source I; #4722].	
Asbestos in buildings; abatement	1988	K.W. Britnell, Jr. and J.S. Vinkovich, Final AHERA "compromise" includes inspections, written plans, actions, Occupational Health and Safety 57(2):52, 54 and 56, February [Source I; #4459].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 128 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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DRAFT -- 5/1/93

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 129 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 130 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 131 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 132 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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ACL Doc 24874 · Page 133 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 134 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 135 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 136 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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DRAFT -- 5/1/93

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 137 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

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Asbestos in buildings; dust counts	1989	G.J. Burdett, C.D. Papanicolopoulos and J.J. Smith, Airborne asbestos fiber levels in buildings and their impact on risk management, Proceedings of Symposium on Health Aspects of Asbestos in Buildings, Harvard University, December, 1988; Cambridge, MA: Harvard University Energy and Environmental Policy Center.	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 138 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings	1989	G.J. Burdett, The impact of the EPA final rule in schools: A survey of analytical TEM laboratories: Preliminary results, NAC Journal 7(2):22-26.	
Body burden; asbestos air pollution	1989	B.W. Case and P. Sebastien, Fibre levels in lung and correlation with air samples, Nonoccupational Exposure to Mineral Fibres (J. Bignon, J. Peto and R. Saracci, editors); Lyon: International Agency for Research on Cancer Scientific Publications No. 90, pp. 207-219.	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 139 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 140 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
	1989	J. Chesson, J. Rench, B. Schultz and K. Milne, Interpretation of Airborne Asbestos Measurements; Washington, DC: Chesson Consulting.	
Body burden	1989	G. Chiappino, K.H. Friedrichs, A. Forni, G. Rivolta and A. Todaro, Alveolar and lung fibre levels in non-occupationally exposed subjects, Nonoccupational Exposure to Mineral Fibres (J. Bignon, J. Peto and R. Saracci, editors); Lyon: International Agency for Research on Cancer Scientific Publications No. 90, pp. 310-313.	
Nonoccupational mesothelioma; childhood exposure	1989	S.P. Cooper, A.E. Fraire, P.A. Buffler, S.D. Greenberg and C. Langston, Epidemiologic aspects of childhood mesothelioma, Pathology and Immunopathology Research 8(5-6):276-286, September-December.	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 141 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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CATEGORY	DATE	ARTICLE	COMMENTS
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Abatement; air sampling techniques	1989	R.L. Cryberg, The asbestos hazard: Post-abatement monitoring using TEM, Journal of Environmental Health 52:168-169, November/December.	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 142 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Abatement	1989	Evaluation of Exposure to Airborne Fibers During Removal of Resilient Floor Tiles Using Recommended Work Practices; Arlington, VA: Environ Corporation.	
Asbestos in buildings	1989	"Fiber phobia" out of proportion to asbestos risk, Journal of Environmental Health 52:163, November/December.	
Asbestos air pollution	1989	M.J. Gardner and R. Saracci, Effects on health of non-occupational exposure to airborne mineral fibres, Nonoccupational Exposure to Mineral Fibres (J. Bignon, J. Peto and R. Saracci, editors); Lyon: International Agency for Research on Cancer Scientific Publications No. 90, pp. 375-397.	

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CATEGORY	DATE	ARTICLE	COMMENTS
	1989	A. Gaudichet, G. Petit, M.A. Billon-Galland and G. Dufour, Levels of atmospheric pollution by man-made mineral fibres in buildings, Nonoccupational Exposure to Mineral Fibres (J. Bignon, J. Peto and R. Saracci, editors); Lyon: International Agency for Research on Cancer Scientific Publications No. 90, pp. 291-298.	
Asbestos in buildings	1989	D. Godish, Asbestos exposure in schools, Journal of School Health 59(8):362-363, October [Source I; #4458].	
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ACL Doc 24874 · Page 143 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/143

PRIVILEGED AND CONFIDENTIAL
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Asbestos in buildings	1989	M.P. Guillemin, P. Madelaine, G. Litzistorf, P. Buffat and F. Iselin, Asbestos in buildings, Aerosol Science and Technology 11:221-243.	
Product use; x-ray abnormalities	1989	S.K. Hall, Pulmonary health risk: Abnormalities found in workers handling asbestos products, Journal of Environmental Health 52:165-167, November/December.	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 144 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/144

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 145 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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DRAFT -- 5/1/93

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Risk assessment	1989	J.M. Hughes, The derivation and use of asbestos risk estimates, Proceedings of a Symposium on Health Aspects of Exposure to Asbestos in Buildings; Cambridge, MA: Harvard University Energy and Environmental Policy Center, pp. 267-278.	
Asbestos in buildings	1989	J.K. Kam, Demolition work hazard, Journal of Environmental Health 52:162-163, November/December.	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 146 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings	1989	S.J. Lees, Air sampling and asbestos-containing materials in buildings, Proceedings of a Symposium on Health Aspects of Exposure to Asbestos in Buildings, Cambridge, MA: Harvard University Energy and Environmental Policy Center, December, pp. 221-234.	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 147 of 283
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		the Netherlands, Food Chemistry and Toxicology 27(1):53-63, January.	
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Asbestos in buildings; maintenance workers; lung functions	1989	L.C. Oliver, N.L. Sprince and R.E. Green, Asbestos related disease in public school custodians, American Review of Respiratory Disease 139:A211 [Source I; #4772].	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 148 of 283
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PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
	1989	J. Peto, Fibre carcinogenesis and environmental hazards, Proceedings of a Symposium on Health Aspects of Exposure to Asbestos in Buildings; Cambridge, MA: Harvard University Energy and Environmental Policy Center, December, pp. 279-?	
Air sampling techniques	1989	K. Rodelsperger, U. Teichert, H. Marfels, K. Spurny, R. Arhelger and H.J. Woitowitz, Measurement of inorganic fibrous particulates in ambient air and indoors with the scanning electron microscope, International Agency for Research on Cancer Scientific Publications No. 90: pp. 361-366.	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 150 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
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Asbestos in buildings	1989	J.D. Spengler, H. Ozkaynak, J.F. McCarthy and H. Lee, Summary of Symposium on the Health Aspects of Exposure to Asbestos in Buildings; Cambridge, MA: Harvard University Energy and Environmental Policy Center.	
Asbestos cement; fiber release	1989	K.R. Spurny, Asbestos fibre release by corroded and weathered asbestos-cement products, Symposium on Mineral Fibres in the Non-Occupational Environment (J. Bignon, J. Peto and R. Saracci, editors); Lyon: International Agency for Research on Cancer Scientific Publications	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 151 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
		No. 90, pp. 367-371.	
Asbestos in buildings; mesothelioma; fiber type	1989	R.C. Stein, J.Y. Kitajewska, J.B. Kirkham, N. Tait, G. Sinha and R.M. Rudd, Pleural mesothelioma resulting from exposure to amosite asbestos in a building, Respiratory Medicine 83(3):237-239, May [Source C; #168].	
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PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings	1990	Asbestos in Public and Commercial Buildings, Policy Dialogue: Final Report; Conservation Foundation.	
Abatement	1990	J. Berry, EPA and asbestos removal, Science 248(4963):1595, June 29 [Source I; #4447].	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 153 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings	1990	J. Chesson, J. Hatfield, B. Schultz, E. Dutrow and J. Blake, Airborne asbestos in public buildings, Environmental Research 51(1): pp. 100-107, February [Source C; #5].	
Abatement	1990	Z.S. Cowan III, Small-scale, short-duration operations: A perspective, NAC Journal, Fall, pp. 19-21.	
	1990	N.A. Esmen and S. Erdal, Human occupational and nonoccupational exposure to fibers, Environmental Health Perspectives 88:277-286, August [#3847].	
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CATEGORY	DATE	ARTICLE	COMMENTS
Abatement	1990	Evaluation of Worker Exposure to Airborne Fibers During the Removal of Asphaltic Cutback Adhesive Using Recommended Work Practices; Arlington, VA: Environ Corporation.	
Body burden	1990	K. Hiraoka, A. Horie and M. Kido, Study of asbestos bodies in Japanese urban patients, American Journal of Industrial Medicine 18(5):547-554 [Source I; #4477].	
Asbestos air pollution	1990	S.A.M.T. Jaffrey, Environmental asbestos fiber release from brake and clutch linings of vehicular traffic, Annals of Occupational Hygiene 34:529-534.	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 154 of 283
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asbestosclaims.law/library/24874/154

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Asbestos in buildings	1990	C. Joyce, Public being "misled" over asbestos dangers, New Scientist 126:16, April 14 [Source I; #4456].	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 155 of 283
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CATEGORY	DATE	ARTICLE	COMMENTS
Abatement	1990	D. Keyes and J. Chesson, Recent Research on Fiber Release from ACM and Re-Entrainment of Asbestos Dust; Tucson, AZ: Environmental Sciences.	
Abatement	1990	J.R. Kominsky, R.W. Freyberg, T.J. Powers, R.C. Wilmoth and C.P. Frebis, Airborne asbestos levels measured before, during, and after abatement, NAC Journal, Spring, pp. 29-33.	
Abatement	1990	J.R. Kominsky, R.W. Freyberg, J. Chesson, W.C. Cain, T.J. Powers and R.C. Wilmoth, Evaluation of two cleaning methods for the removal of asbestos fibers from carpet, American Industrial Hygiene Association Journal 51(9):500-504, September [Source I; #4472].	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 156 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/156

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 157 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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CATEGORY	DATE	ARTICLE	COMMENTS
Abatement	1990	S. Krantz, Asbestos exposure during dry and wet removal, Proceedings of the AIA 6th International Colloquium on Dust Measurement Technique and Strategy, Jersey, Channel Islands, 28-30 Novewmber 1989; Paris: Asbestos International Association, pp. 127-130.	
Nonoccupational mesothelioma	1990	A.M. Langer and R.P. Nolan, [Re: Pleural mesothelioma in an office worker], Respiratory Medicine 84(6):509, November [#3790].	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 158 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; asbestos cement	1990	N.J. Lewis and M.F. Curtis, Occupational health and hygiene following a fire in a warehouse with an asbestos cement roof, Journal of the Society of Occupational Medicine 40(2):53-54, Summer.	
	1990	X.Z. Liu, S.Q. Luo, Z.M. Wang, M.Z. Wang and C.L. Zhan, An investigation of crocidolite contamination and mesothelioma in a rural area of China, Biomedical and Environmental Sciences 3(2):156-165, June.	
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Bulk sample analysis	1990	M.H. Peeters, Automatic identification and determination of asbestos minerals, Proceedings of the AIA 6th International Colloquium on Dust Measurement Technique and Strategy, Jersey, Channel Islands, November 28-30, 1989; Paris: The Asbestos International Association, pp. 131-137.	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 159 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/159

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1990	K. Rodelspurger, U. Tiechert, H. Marfels, K. Spurny, R. Arlhelger and H.J. Woitowotz, The measurement of inorganic fibrous particulates in ambient air and indoors with the scanning electron microscope, Symposium on Mineral Fibres in the Non-Occupational Environment (J. Bignon and R. Saracci, editors); Lyon: International Agency for Research on Cancer Scientific Publications No. 90, pp. 361-366.	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 160 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/160

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 161 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

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Abatement	1990	R.C. Spicer, Altered HVAC operations for building pressurization during asbestos abatement, NAC Journal, Spring, pp. 17-21.	
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Bulk sample analysis	1990	Standard Method for Testing for Asbestos Containing Materials by Polarized Light Microscopy; Philadelphia, PA: American Society for Testing Materials Committee D22.05.	
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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 163 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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Abatement; respirator use	1990	S.N. Tannahill, R.J. Willey and M.H. Jackson, Workplace protection factors of HSE approved negative pressure full-facepiece dust respirators during asbestos stripping: Preliminary findings, Annals of Occupational Hygiene 34(6):547-552, December.	
Abatement	1990	R.W. Tuckey, Jr., Asbestos abatement in occupied high-rise buildings: A case study, NAC Journal, Fall, pp. 27-31.	
Bulk sample analysis	1990	J.S. Webber, R.J. Janulis, L.J. Carhart and M.B. Gillespie, Quantitating asbestos content in friable bulk samples: Development of a stratified point-counting method, American Industrial Hygiene Association Journal 51(8):447-452, August [Source I; #4473].	

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Abatement	1991	AIHA position statement on the removal of asbestos-containing materials (ACM) from buildings, American Industrial Hygiene Association Journal 52(6):A324-328, June, 1991.	
Asbestos in buildings; mesothelioma; maintenance workers; school teachers	1991	H.A. Anderson, L.P. Hanrahan, J. Schirmer, D. Higgins and P. Sarow, Mesothelioma among employees with likely contact with in-place asbestos-containing building materials, Annals of New York Academy of Sciences 643:550-572, December 31 [Source I; #4437].	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 164 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/164

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 165 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

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Asbestos in buildings	1991	Asbestos in Public and Commercial Buildings: A Literature Review and Synthesis of Current Knowledge; Cambridge, MA: Health Effects Institute -- Asbestos Research (HEI-AR) Literature Review Panel [Source K].	
Body burden	1991	D.B. Baker, Limitations in drawing etiologic inferences based on measurement of asbestos fibers from lung tissue, Annals of the New York Academy of Sciences 643:61-70, December 31 [Source I; #4496].	
Asbestos in buildings; maintenance workers	1991	J.R. Balmes, A. Daponte and J.E. Cone, Asbestos-related disease in custodial and building maintenance workers from a large municipal school district, Annals of the New York Academy of Sciences 643:540-549, December 31 [#4436].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 166 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 167 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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DRAFT -- 5/1/93

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Abatement; risk assessment	1991	P.C. Chrostowski, S.A. Foster and E.L. Anderson, Human health risks associated with asbestos abatement, Risk Analysis 11(3):465-481, September [Source I; #4445].	
Asbestos in buildings	1991	N. Cohen, Regulation of in-place asbestos-containing material, Environmental Research 55(1):97-106, June [Source I; #4466].	
Asbestos in buildings	1991	T.F. Cooke, Indoor air pollutants: A literature review, Reviews on Environmental Health 9(3):137-160.	
Asbestos in buildings; dust counts	1991	M. Corn, K. Cump, D.B. Farrar, R.J. Lee and D.R. McFee, Airborne concentrations of asbestos in 71 school buildings, Regulatory Toxicology and Pharmacology 13(1):99-114, February [Source I; #4464].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 168 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; abatement	1991	N.A. Esman, The costs of imprecision: Perspectives in asbestos abatement, Annals of the New York Academy of Sciences 643:582-588, December 31.	
Asbestos in buildings; asbestos cement	1991	O. Geisler, Occupational health and hygiene following a fire in a warehouse with an asbestos cement roof, Journal of the Society of Occupational Medicine 41(3):143, Autumn.	
Body burden; childhood exposure	1991	A.K. Haque, M.F. Kanz, M.G. Mancuso, G.M. Williams and R.F. Dodson, Asbestos in the lungs of children, Annals of the New York Academy of Sciences 643:419-429, December 31 [Source I; #4489].	

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CATEGORY	DATE	ARTICLE	COMMENTS
	1991	C.P. Hallenborg, N. Marsh and S. Moser, Toxic substances in the environment affecting respiratory function of people in Hawaii, Hawaii Medical Journal 50(3):101-107, March.	
Asbestos in buildings	1991	D.M. Hashimote, T.A. Brennan and D.C. Christiani, Should asbestos in buildings be regulated on an environmental or occupational basis? Annals of the New York Academy of Sciences 643:609-613, December 31 [Source I; #4482].	
Pleural plaques; asbestos air pollution	1991	G. Hillerdal, Pleural plaques in the general population, Annals of the New York Academy of Sciences 643:430-437, December [Source I; #4488].	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 169 of 283
Published by AsbestosClaims.Law
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CATEGORY	DATE	ARTICLE	COMMENTS
Neighborhood exposure; nonoccupational mesothelioma	1991	N. Itese, S. Takayama, M. Nakayama, H. Miura and Y. Kimula, Pleural mesothelioma after neighborhood exposure to asbestos during childhood, Japanese Journal of Medicine 30(4):343-345, July/August.	
Asbestos in buildings	1991	D.L. Keyes and J.R. Millette, Asbestos exposure from activities in buildings with asbestos-containing materials, Annals of the New York Academy of Sciences 643:509-510, December 31 [Source I; #4487].	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 170 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/170

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 171 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Product use; dust counts	1991	D.L. Keyes, J. Chesson, W.M. Ewing, J.C. Faas, R.L. Hatfield, S.M. Hays, L.E. Longo and J.R. Millette, Exposure to airborne asbestos associated with simulated cable installation above a suspended ceiling, American Industrial Hygiene Association Journal 52(11):479-484, November.	
Abatement	1991	J.R. Kominsky, R.W. Freyberg and B.A. Hollet, Asbestos fiber release while changing filter bags of HEPA-filtered vacuum cleaners, NAC Journal.	
Asbestos in buildings; childhood exposure	1991	P.J. Landrigan, A population of children at risk of exposure to asbestos in place, Annals of the New York Academy of Sciences 643:283-286, December 31 [Source I; #4491].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 172 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; maintenance workers; x-ray abnormalities	1991	S.M. Levin and I.J. Selikoff, Radiological abnormalities and asbestos exposure among custodians of the New York City Board of Education, Annals of the New York Academy of Sciences 643:530-539, December 31 [Source I; #4438].	
Asbestos in buildings; mesothelioma; school teachers	1991	D.E. Lilienfeld, Asbestos-associated pleural mesothelioma in school teachers: A discussion of four cases, Annals of the New York Academy of Sciences 643:454-458, December 31 [#4441].	

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CATEGORY	DATE	ARTICLE	COMMENTS
	1991	H.S. MacDonald, Asbestos: Asbestos fibers in floor tile, The Microscope 39(1):74.	
Nonoccupational mesothelioma	1991	C. Magnani, G. Borgo, G.P. Betta, M. Botta, C. Ivaldi, F. Mollo, M. Scelzi and B. Terracini, Mesothelioma and non-occupational environmental exposure to asbestos, Lancet 338 (8758):50, July 6 [Source I; #4461].	
Nonoccupational mesothelioma	1991	E.J. Mark and T. Yokoi, Absence of evidence for a significant background incidence of diffuse malignant mesothelioma apart from asbestos exposure, Annals of the New York Academy of Sciences 643:196-204, December 31 [Source I; #4492].	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 173 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/173

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 174 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings	1991	S.B. Markowitz, K. Garibaldi, R. Lilis and P.J. Landrigan, Asbestos exposure and fire fighting, Annals of the New York Academy of Sciences 643:573-577, December 31 [Source I; #4485].	
Asbestos in buildings	1991	J.C. McDonald, An epidemiological view of asbestos in buildings, Toxicology and Industrial Health 7(5-6):187-193, September-November.	
Asbestos in buildings	1991	L.B. Molley, Asbestos in place in Metropolitan New York, Annals of the New York Academy of Sciences 643:614-621, December 31 [Source I; #4480].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 175 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Risk assessment; asbestos in buildings; chrysotile	1991	W.J. Nicholson, Comparative dose-response relationships of asbestos fiber types: Magnitudes and uncertainties, Annals of the New York Academy of Sciences 643:74-84, December 31 [Source I; #4874].	
Asbestos in buildings; maintenance workers; x-ray abnormalities	1991	L.C. Oliver, N.L. Sprince and R. Greene, Asbestos-related abnormalities in school maintenance personnel, Annals of the New York Academy of Sciences 643:521-529, December 31 [Source I; #3330].	
Asbestos in buildings; maintenance workers; lung function; pleural plaques	1991	L.C. Oliver, N.L. Sprince and R. Greene, Asbestos-related disease in public school custodians, American Journal of Industrial Medicine 19:303-316 [Source I; #4748].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 176 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Abatement; protective clothing	1991	S. Rissanen, J. Smolander and V. Louhevaara, Work load and physiological responses during asbestos removal with protective clothing, International Archives of Occupational and Environmental Health 63(4):241-246.	
Asbestos in buildings; body burden	1991	V.L. Roggli and W.E. Longo, Mineral fiber content of lung tissue in patients with environmental exposures: Household contacts vs. building occupants, Annals of the New York Academy of Sciences 643:511-518, December 31 [Source I; #4439].	
Asbestos in buildings; abatement	1991	G.W. Schepers, The Veterans Administration's Asbestos Abatement Program, Annals of the New York Academy of Sciences 643:597-608, December 31 [Source I; #4483].	

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PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos air pollution	1991	J.R. Viallat et al., Pleural effects of environmental asbestos pollution in Corsica, Annals of the New York Academy of Sciences 643:438-443, December 31.	
Asbestos in buildings	1991	H.J. Woitowitz, Aspects of asbestos exposure in place in the Federal Republic of Germany, Annals of the New York Academy of Sciences 643:407-411, December 31 [Source I; #4490].	
Abatement	1992	C. Bateson, Results of a survey designed to determine the scientific and economic benefits of asbestos abatement, American Industrial Hygiene Association Journal 53:381-386, June [Source I; #4453].	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 177 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/177

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Product use; fiber counts	1992	P.A. Brogran, Exposure to airborne asbestos associated with simulated cable installation above a suspended ceiling, American Industrial Hygiene Association Journal 53(4):A192, April.	
Nonoccupational mesothelioma; childhood exposure	1992	A. Cazzadori et al., Malignant pleural mesothelioma caused by non-occupational childhood exposure to asbestos, British Journal of Industrial Medicine 49(80:599, August.	
Asbestos in buildings; risk assessment	1992	E.A. Gaensler, Asbestos exposure in buildings, Clinics in Chest Medicine 13(2):231-242, June [#4887].	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 179 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos in buildings; dust counts	1992	E. Ganor, A. Fischbein, S. Brenner, P. Froom, Extreme airborne asbestos concentrations in a public building, British Journal of Industrial Medicine 49(7):486-488, July [Source I; #4454].	
Asbestos in buildings	1992	R.J. Lee et al., Exposure to airborne asbestos in buildings, Regulatory Toxicology and Pharmacology 16(1):93-107, August.	
Asbestos in buildings	1992	P. Lundy and M. Barer, Asbestos-containing materials in New York city buildings, Environmental Research 58(1):15-24, June [Source I; #4742].	
Abatement	1992	L. McDonald, The health hazards of asbestos removal, JAMA 267(1):52-53, January 1 [Source I; #4462].	

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CATEGORY	DATE	ARTICLE	COMMENTS
Product use; fiber release	1992	W.N. McKinney, Jr. and R.W. Moore, Evaluation of airborne asbestos fiber levels during removal and installation of valve gaskets and packing, American Industrial Hygiene Association Journal 53:531-532, August [Source I; #4452].	
Nonoccupational mesothelioma	1992	Z.T. Selcuk et al., Malignant pleural mesothelioma due to environmental mineral fiber exposure in Turkey: Analysis of 135 cases, Chest 102(3):790-796, September.	
Sprayed asbestos; body burden	1992	T. Tuomi et al., Fibres and asbestos bodies in bronchoalveolar lavage fluids of asbestos sprayers, British Journal of Industrial Medicine 49(7):480-485, July.	

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 180 of 283
Published by AsbestosClaims.Law
asbestosclaims.law/library/24874/180

Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 181 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
	1992	A.J. Valleron et al., Low dose exposure to natural and manmade fibres and the risk of cancer, British Journal of Industrial Medicine 49(9):606-614, September.	
	1992	D. Vesley et al., Asbestos fiber release associated with room humidifiers, Applied Occupational and Environmental Hygiene 7(8):522, August 1.	
	1993	A. Fischbein et al., Respiratory findings among millwright and machinery erectors: Identification of health hazards from asbestos in place at work, Environmental Research 61(1):25, April 1.	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 182 of 283

PROPERTY DAMAGES MEDICAL/SCIENTIFIC CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
	1993	D.G. Howitt et al., The difficulties with low-level asbestos exposure assessments in public, commercial and industrial buildings, American Industrial Hygiene Association Journal 54(5):267, May 1.	

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 183 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93 6/22/93

CATEGORY	DATE	ARTICLE	COMMENTS
England; hazardous processes	1899	Annual Report of the Chief Inspector of Factories and Workshops for the Year 1898, Part II; London: H.M. Stationery Office, pp. 171-172 [F&P #3148].	Asbestos sifting and carding was one of the dusty occupations observed by British factory inspectors to have an "easily demonstrated danger to the health of the workers." The report appears to be the first published mention of a health hazard to asbestos workers.
England; hazardous processes; dust control	1900	Annual Report of the Chief Inspector of Factories and Workshops for the Year 1899; London: H.M. Stationery Office, p. 264 [#3147].	Notes efforts to obtain exhaust equipment to remove dust during manufacture of jacketing for pipes, which involves the use of asbestos ("the injuriousness of which substance was demonstrated in last year's report").
Hazardous processes	1902	A.M. Anderson, Historical sketch of the development of legislation for injurious and dangerous industries in England, Dangerous Trades (T. Oliver, editor); New York: Dutton, p. 25 [#3146].	"Some of the most injurious processes known to us now are extremely ancient. To mention but a few: lead and quicksilver mining, the potters' craft, and the textile processes of preparing and weaving asbestos and flax." Asbestos is not mentioned elsewhere in the book, however, neither in the chapter on dust-producing occupations nor in the one on dust as a cause of occupational disease.
Hazardous processes	1906	M. Auribault, Note sur l'hygiene et la securite des ouvriers dans les filateurs et tissages d'amiante, Bulletin Francais de l'Inspection du Travail 14:120-132.	A report of "numerous deaths in a French asbestos spinning mill and weaving factory over the period 1890-1895," according to D.H.K. Lee and I.J. Selikoff, Historical background to the asbestos problem, Environmental Research 18:300-314, 1979.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 184 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos bodies	1906	F. Marchand, Ueber eigentumliche Pigmentkristalle in den Lungen, Verhandlungen der Deutschen Pathologischen Gesellschaft 10:223-228.	Bodies found in the lungs of a German asbestos worker produce a strong iron reaction. Apparently the first report in the medical literature concerning asbestos bodies.
England; hazardous processes	1907	Annual Report of the Chief Inspector of Factories and Workshops for the Year 1906; London: H.M. Stationery Office, pp. 219-220 [#3144].	The sieving, carding and spinning of asbestos is considered one of the most hazardous processes, and study of former workers is necessary in order to determine the extent of the effects from asbestos.
England; fibrosis	1907	H. Montague Murray, Testimony before the Departmental Committee on Compensation for Industrial Diseases, Minutes of Evidence 3946:127-128, and Report of the Departmental Committee on Compensation for Industrial Diseases; London: H.M. Stationery Office, p. 14 [#3145].	First case report of asbestos disease. Describes fibrosis of the lungs in a British asbestos textile worker, who died at 32 after 14 years in the trade; 10 co-workers in carding room had also died around 30 years of age. Case was autopsied in 1900 but apparently not reported in the medical literature.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 185 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
United States; hazardous processes	1908	F.L. Hoffman, The Mortality from Consumption in Dusty Trades; Washington, DC: U.S. Bureau of Labor Bulletin No. 79, November.	Discusses British report on compensation for industrial diseases (Murray, above), noting that no final conclusions were made regarding asbestos workers, "partly, no doubt, because of the limited scope of the inquiry and the paucity of conclusive statistical data." This appears to be the first mention in a U.S. Government publication of a possible asbestos hazard.
Hazardous processes	1908	L.G. Scarpa, Industria dell'amianto e tubercolosi, Proceedings of the 18th International Medical Congress, Rome, p. 358.	"Scarpa reviewed the fate of 30 [Italian] asbestos workers who attended his clinic over the period 1894-1906 with serious pulmonary disease and found rapidly progressive tuberculosis to be the rule," according to D.H.K. Lee and I.J. Selikoff, Historical background to the asbestos problem, Environmental Research 18:300-314, 1979.
England; hazardous processes; medical surveillance	1911	Annual Report of the Chief Inspector of Factories and Workshops for England and Wales for 1910; London: H.M. Stationery Office, p. 188 [#3143].	Five deaths from tuberculosis occurred in five years among fewer than 40 workers employed in asbestos weaving. The most dangerous process appeared to be the production of asbestos mattresses. Annual medical examinations were instituted to detect early signs of disease.
England; hazardous processes; respirator use	1912	Annual Report of the Chief Inspector of Factories and Workshops for the Year 1911; London: H.M. Stationery Office, p. 168 [#3141].	Recommends use of "suitable respirators" in making mattresses for engine covering, "a very dusty process."

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EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
Canada; hazardous processes	1912	Effect of asbestos dust on workers' health in asbestos mines and factories, Labour Gazette 12(8):761-762, February [#3142].	A report from Canada's Department of Labour, it appears to be the first Canadian investigation of health hazards due to asbestos. "One of the oldest medical practitioners in Thetford expressed the view that the asbestos dust floating in the atmosphere of the cobbing room had a weakening effect on the lungs of those employed," although "another medical practitioner of long standing" stated that "the record of deaths from lung diseases is not higher in the centres of the asbestos industry than elsewhere."
Insurance industry; hazardous processes	1912	F.B. Mead, Hazardous and unhealthful occupations and their rating, Proceedings of the Second Mid-Year Meeting of the Medical Section of the American Life Convention, San Antonio, Texas, February 28 to March 1, pp. 14-47.	Summarizes study of "all of the leading companies in this country [U.S.] that make a practice of issuing policies at extra premiums on account of occupation." Insurance for asbestos workers was limited to 10-year endowments, although occupational hazard is not specified.
United States; medical surveillance; dust control	1914	Annual Report of the Surgeon General of the U.S. Public Health Service for the Fiscal Year 1914; Washington, DC: U.S. Public Health Service, pp. 47-49.	During a U.S. Government study of tuberculosis, 315 workers in the asbestos products industry in Cincinnati were examined and surveys were made of ventilation in asbestos factories in Indiana.

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EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Hazardous processes	1914	T. Fahr, Demonstrationen: Praparate und Mikrophotogramme von einem Falle von Pneumonokoniose, Muenchener Medizinische Wochenschrift 61:625, March.	A case report of pneumonia in a German asbestos worker.
X-ray abnormalities	1917	H.K. Pancoast, T.G. Miller and H.R.M. Landis, A roentgenologic study of the effects of dust inhalation upon the lungs, Transactions of the Association of American Physicians 32:97-108 [#3140]. Similar material published in American Journal of Roentgenology 5:129-138, 1918 [#3137].	A description of the stages of pneumoconiosis, based on study of workers in various occupations, including 15 asbestos workers. Differentiates between effects noticed in asbestos workers and those in cement workers, metal grinders, coal miners, and others.
United States; insurance industry; hazardous processes	1918	F.L. Hoffman, Mortality from Respiratory Diseases in Dusty Trades; Washington, DC: U.S. Bureau of Labor Statistics Bulletin No. 231, June, pp. 176-180 [#3135].	Asbestos is a self-evident predisposing cause of pulmonary tuberculosis, and the lack of information on the utilization of asbestos products as well as on the asbestos industry in general is regrettable. "In the practice of American and Canadian life insurance companies, asbestos workers are generally declined on account of the assumed health-injurious conditions of the industry."

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EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
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DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Dust counts; dust control	1918	T.G. Miller and H.F. Smyth, The dust hazard in certain industries, Journal of the American Medical Association 70(9):599-604, March 2 [#3136]. Also published in Transactions of the College of Physicians 39:395-400, 1917. Similar information published by Smyth and Miller in Pennsylvania Medical Journal 21:364-368, March 1918 [#3139], and by Smyth in American Journal of Public Health 8:769-771, 1918 [#3138].	First report in the medical literature of asbestos dust counts (six tests in two asbestos fiber weaving mills, with and without exhaust hoods). Dust removal equipment not only lessens the number of particles, but also decreases the percentage of the smallest sized particles.
Dust counts	1919	C.-E.A. Winslow, L. Greenburg and D. Greenburg, The dust hazard in the abrasive industry, Public Health Reports 34(22):1171-1187, May 30.	Although this U.S. Public Health Service report concerns mineral and metallic dusts in general, the authors compare the dust content of air in abrasive factories with that reported for other industrial establishments, including the asbestos industry.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 189 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Hazardous processes; medical surveillance; insurance industry	1921	Occupation Hazards and Diagnostic Signs, A Guide for Medical Examiners Regarding Impairments to Be Looked for in Hazardous Occupations; Metropolitan Life Insurance Company, 2nd edition [#3132]. Portions also published in Modern Medicine 3(1):20-21, January 1921 [#3131] and Monthly Labor Review 12(3):159-167, March 1921. Published in expanded format as U.S. Bureau of Labor Statistics Bulletin No. 306, April 1922 [#3129] and in U.S. Naval Medical Bulletin 17(5):883-914, November 1922 [#3130].	An alphabetical list of hazardous occupations. Cough, dyspnea, clubbed fingers and fibrosis are some of the symptoms to look for in asbestos workers. Insulators are listed separately and the only hazard given for insulators is tar.
Nonoccupational mesothelioma	1921	E.A. Wood and A.L. Walter, Primary mesothelioma of the pleura -- With report of a case, Journal of the Missouri Medical Association 18:277-281, August [#3133].	Case report of mesothelioma in 45-year-old male public school teacher; no discussion of etiology. Notes controversy as to proper classification of this type of tumor and that it is often reported as an endothelioma.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 190 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Fibrosis	1924	W.E. Cooke, Fibrosis of the lungs due to the inhalation of asbestos dust, British Medical Journal 2:147, July 29 [#3125].	Describes autopsy appearance of lungs of 33-year-old woman who had worked in asbestos factories since age of 13. First case report in the medical literature ascribing fibrosis specifically to the inhalation of asbestos dust.
Hazardous processes	1924	G.M. Kober and E.R. Hayhurst, Industrial Health; Philadelphia, PA: P. Blakiston's Son & Co., pp. 19 and 606-626.	Contains alphabetical list of "industries in which poisoning may occur," which includes asbestos workers. Inorganic dust is given as the hazard. However, asbestos is not listed in the subject index and is not discussed in the chapter on diseases due to dust.
Hazardous processes	1924	H.K. Pancoast, Roentgenological studies of pneumoconiosis and other fibrosing conditions of the lungs, Annals of Clinical Medicine 2(1):8-23 [#3128].	"Asbestos and cement factories are among the most dusty of all places, and yet the workers show comparatively little effect from the dust inhalation."
Asbestos industry; hazardous processes	1924	[Untitled note], Asbestos, July, p. 31.	Appears to be the first mention in an industry trade journal of asbestos health hazard. "At a coroner's inquest at Rochdale [England], during March, a statement was made by one of the medical expert witnesses that an employee of an asbestos plant in Rochdale had died from asbestos poisoning." Presumably refers to the case reported by Cooke (above).

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 191 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Fibrosis	1925	T. Oliver, The Health of the Workers; London: Faber and Gwyer, pp. 108-109 [#3123].	Apparently the first discussion of asbestos-related disease in a textbook of occupational medicine. The chapter on dusts includes a description of Cooke's case, noting that asbestos dust "when inhaled is capable of inducing structural changes in the lungs."
Asbestosis	1925	T. Oliver, Some dusty occupations and their effects upon the lungs, Journal of the Royal Sanitary Institute 46:224-229 [#3122].	Appears to be the first use of the term "asbestosis" in English-language literature: "Since Dr. Cooke's paper is the first and only report, so far as I know, of asbestosis, and the pathology of the malady is not yet definitely settled, the subject is left over for further consideration."
X-ray abnormalities	1925	H.K. Pancoast and E.P. Pendergrass, A review of our present knowledge of pneumoconiosis, based upon roentgenologic studies, with notes on the pathology of the condition, American Journal of Roentgenology 14(5):381-423, November [#3124]. Information expanded and published in 1926 as monograph: Pneumoconiosis (Silicosis): A Roentgenological Study with Notes on Pathology.	Reviews Cooke's 1924 asbestos case, which authors regard as "largely a tuberculous case." Workers may be exposed to asbestos all the way through the process of manufacture to the finished product. Also reviews changes seen in 17 asbestos cases first examined in 1918.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 192 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Hazardous processes	1926	Annual Report of the South African Institute for Medical Research for the Year Ended 31st December, 1925, Johannesburg.	"Investigation of the effects following inhalation of asbestos dust has afforded no evidence that this material is a phthisis producing dust," according to abstract in Journal of Industrial Hygiene 9(3):61-62, March 1927.
Asbestos bodies	1926	Pathological Society, Lancet 1:136-137, January 16.	At a meeting of the British Pathological Society on January 8 and 9, 1926, S. McDonald, T. Oliver and W.E. Cooke "showed some strange bodies found in the fibrosed lung of an asbestos worker."
Asbestosis	1927	W.E. Cooke, Pulmonary asbestosis, British Medical Journal 2:1024-1025, December 3 [#3116]. Similar information published by Cooke and C.F. Hill in Journal of the Royal Microscopical Society 49:232-238, 1927 [#3117], and noted in British Medical Journal 1:890-891, May 14.	A more detailed review of the case reported by Cooke in 1924.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 193 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
X-ray abnormalities	1927	H.R.M. Landis, Diseases of the lungs, Diseases of the Chest and the Principles of Physical Diagnosis, 3rd edition (G.W. Norris and H.R.M. Landis, editors); Philadelphia, PA: W.B. Saunders, pp. 333-622 [#3119].	A chapter in a basic medical text which refers briefly to the mottling seen on x-rays in the second stage of pneumoconiosis: "It occurs early in those exposed to silica; comparatively early in coal miners, certain metal grinders and somewhat later in potters and asbestos workers."
Asbestos bodies	1927	S. McDonald, Histology of pulmonary asbestosis, British Medical Journal 2:1025-1026, December 3 [#3118].	Discusses histology of Cooke's case, particularly relationship of foreign bodies to asbestos exposure.
Asbestosis; respirator use; dust control	1927	T. Oliver, Clinical aspects of pulmonary asbestosis, British Medical Journal 2:1026-1027, December 3 [#3121]. Similar information published by Oliver in Journal of Industrial Hygiene 9(11):483-485, November 1927 [#3120].	Describes clinical picture in two British asbestos textile workers and calls for separation of the dustiest processes from other asbestos manufacturing processes and for use of respirators.

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EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1927	Pneumoconiosis caused by asbestos dust, Journal of the American Medical Association 89:304. Also Monthly Labor Review 25(3):69, September 1927.	Notes that a second case (Cooke's case) of pneumoconiosis due to asbestos dust was reported in England.
Animal studies	1928	Annual Report of the South African Institute for Medical Research for the Year Ended 31st December, 1927, Johannesburg, pp. 28-31.	Appears to be the first report of asbestos dust studies in animals. "Asbestos dust experimentally induced in animals similar changes to those seen in workers; but it took longer to produce definite lesions than did the dust of crystalline silica," according to abstract in Journal of Industrial Hygiene 11(2):40, February 1929.
Australia; asbestosis	1928	C. Badham, Notes on a fine type of fibrous pneumonokoniosis produced by silicates and minerals, Report of the Director-General of Public Health, New South Wales, for the Year 1927 (Studies in Industrial Hygiene No. 13), November 8, pp. 102-110 [#3108].	A review of the various types of fibrosis caused by silicates, including asbestosis.

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EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos bodies	1928	W.E. Cooke, Pulmonary asbestosis, British Medical Journal 2:585, September 29 [#3109].	A letter stating that the "curious bodies" found in the lungs of asbestos workers are not diagnostic of asbestosis. "There are fewer than ten cases of pulmonary asbestosis on record, and although the curious bodies have been found in all of them, much more work is necessary before definite views can be expressed."
Asbestosis	1928	E.R. Hayhurst, Fifth International Medical Congress on Industrial Accidents and Occupational Diseases, Budapest, September 2-7, 1928, American Journal of Public Health 18:1530-1531.	Papers given in the industrial hygiene sessions of the congress included asbestosis among the topics.
Asbestos industry; asbestosis	1928	Pulmonary asbestosis, Asbestos, January, p. 41.	Refers to publication of "an important article" on asbestosis (Cooke, 1927, above) which "will be lent to anyone interested."
Asbestosis	1928	Pulmonary asbestosis, Journal of the American Medical Association 90(2):119-120, January 14 [#3110].	An editorial discussing Cooke's 1927 report, and questioning "whether the fibrosis was the result more of tuberculous infection or of the presence of asbestos. . . . In view of the fact that asbestos has been in use since five centuries or more before the time of Christ, it seems strange that it has not attracted attention. . . . Asbestosis, because of its dangers and its unique pathologic features, deserves more attention than it has had."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 196 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1928	H.E. Seiler, A case of pneumoconiosis: Result of the inhalation of asbestos dust, British Medical Journal 2:982, December 1.	A case report of pulmonary fibrosis due to inhalation of asbestos dust in a British asbestos textile worker.
Asbestosis; hazardous processes	1928	F.W. Simson, Pulmonary asbestosis in South Africa, British Medical Journal 1:885-887, May 26 [#3112].	Reports on four cases of pulmonary fibrosis in workers in a South African asbestos mill and suggests that the mining of asbestos is probably not a source of danger, unlike asbestos milling and manufacturing.
Asbestos bodies	1928	M.J. Stewart, The immediate diagnosis of pulmonary asbestosis at necropsy, British Medical Journal 2:509, September 15 [#3113], and 2:675, October 13 [#3114].	Letters which discuss the foreign bodies seen in the lungs of workers with pulmonary asbestosis. These bodies have not been seen in other workers, such as silicotics.
United States; x-ray abnormalities	1928	L.R. Thompson, D.K. Brundage, A.E. Russell and J.J. Bloomfield, The health of workers in the dusty trades. I. Health of workers in a Portland cement plant, Public Health Bulletin 176:1-138, April [#3115].	Although this U.S. Public Health Service study concerns cement workers, the authors refer briefly to the 1925 study by Pancoast and Pendergrass (above), in which 17 asbestos workers were examined, two of whom showed first-stage changes in the lungs on x-ray and the other 15, second-stage.

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EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
England; asbestosis; dust control	1929	Annual Report of the Chief Inspector of Factories and Workshops for the Year 1928; London: H.M. Stationery Office, pp. 95-96 [#3096].	Discusses first comprehensive survey of the British asbestos industry being undertaken by Dr. E.R.A. Merewether and cases of pulmonary fibrosis in asbestos workers reported by Dr. MacGregor, Medical Officer of Health for Glasgow, and I.M.D. Grieve (unpublished). Notes technical difficulties in applying efficient ventilation to asbestos processes.
England; asbestosis	1929	Asbestosis, British Medical Journal 2:1182, December 21 [#3097].	Reports on a discussion in Parliament concerning prevalence of asbestosis in British asbestos factories.
Asbestosis	1929	J.C. Bridge, Remarks on occupational dust, British Medical Journal 2:1143-1147, December 21 [#3189].	Reviews literature on fibrosis of the lung caused by asbestos dust.
Asbestos bodies	1929	W.E. Cooke, Asbestos dust and the curious bodies found in pulmonary asbestosis, British Medical Journal 2:578-580, September 28 [#3099].	Primarily about the formation and chemistry of asbestos bodies and whether they are diagnostic of pulmonary asbestosis.
Animal studies	1929	L.U. Gardner, Studies on experimental pneumonokoniosis, American Review of Tuberculosis 22:833-875 [#3100].	Brief mention of Saranac Laboratory animal studies on the effect of asbestos dust inhalation on tuberculous infection.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 198 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos corns	1929	S.R. Gloyne, The presence of the asbestos fibre in the lesions of asbestos workers, Tubercle 10:404-407, June [#3101].	First description of corns on the skin of asbestos workers, produced when asbestos fibers penetrate the epidermis.
Asbestosis; worker knowledge	1929	A.C. Haddow, Clinical aspects of pulmonary asbestosis, British Medical Journal 2:580-581, September 28 [#3102].	Reviews cases of 15 asbestos workers examined in 1926 and four currently under treatment, all employed in mattress making. "The disclosure of the danger arising from asbestos dust has brought home to the workers the need for observing the measures provided for their protection, and is bound to be salutary."
Dust control	1929	A. Hamilton, Occupational diseases, Outline of Preventive Medicine for Medical Practitioners and Students (prepared under the auspices of the Committee on Public Health Relations, New York Academy of Medicine); New York: Paul B. Hoeber, Inc., pp. 357-367 [#3103].	Greater precautions need to be taken against silica dust than against other dusts, such as asbestos. There is suggestive but not conclusive evidence of damage from silica-free dusts.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 199 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Compensation; asbestosis	1929	T.M. Legge, Thirty Years' Experience of Industrial Maladies (Shaw Lectures); London: Royal Society of Arts. Also published in Journal of the Royal Society of Arts 4006:1007-1022, August 30.	The third lecture discusses compensation for industrial diseases, primarily silicosis, but calls for the addition of asbestosis to the list of compensable industrial diseases in England.
Asbestosis	1929	Occupational dust, Lancet 2:230-231, August 3. Also British Medical Journal 2:203-204, August 3.	A summary of the proceedings of the Section of Occupational Diseases, British Medical Association, on July 24, 1929, which included presentations on asbestosis.
United States: Massachusetts; hazardous processes	1929	Report of the Massachusetts Department of Labor and Industry for the Year Ended November 30, 1928; Boston, pp. 22-31.	Discusses 292 cases of occupational diseases investigated by the Massachusetts Division of Industrial Safety in 1928, including a fatal case occurring in an asbestos textile worker.
Hazardous processes	1929	Risks of asbestos workers, British Medical Journal 2:936, November 16	Brief note of a discussion in Parliament concerning a "comprehensive inquiry" into risks of those employed in asbestos work.
Asbestosis	1929	H. Rolleston, Industrial diseases and their prevention, Journal of the Royal Sanitary Institute 49:617-632, May [#3104].	Little is known about asbestosis because the British asbestos industry is relatively young. Fatal cases are often certified as tuberculosis, a likely secondary infection.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 200 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos bodies	1929	M.J. Stewart, A method of examining the sputum for asbestosis bodies, British Medical Journal 2:581, September 28 [#3197].	Technical laboratory procedures for identifying asbestos bodies.
Asbestos bodies	1929	M.J. Stewart and A.C. Haddow, Demonstration of the peculiar bodies of pulmonary asbestosis ("asbestosis bodies") in material obtained by lung puncture and in the sputum, Journal of Pathology and Bacteriology 32:172 [#3105].	Describes lung punctures in two British asbestos factory workers and examination of the sputum of two other asbestos workers.
Asbestosis; respirator use	1929	W.B. Wood, Pulmonary asbestosis: Radiographic appearances in skiagrams of the chests of workers in asbestos, Tubercle 10:353-363, May [#3106]. Similar information published by Wood and D.S. Page in Tubercle 10:457-460, July [#3107].	Reviews 15 cases of pulmonary asbestosis in British asbestos factory workers under care since 1928. One of the patients, who worked in a factory grinding crude asbestos into fiber, had worn a respirator.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 201 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1930	Annual Report of the Chief Inspector of Factories and Workshops for the Year 1929; London: H.M. Stationery Office, pp. 89-92 [#3071].	Summarizes the Merewether and Price study of the British asbestos industry (below).
Animal studies	1930	Annual Report of the South African Institute for Medical Research for the Year Ended 31st December, 1929, Johannesburg.	Includes a discussion of experiments in which asbestos was subcutaneously injected in animals, according to abstract in Journal of Industrial Hygiene 13(1):1-2, January 1931.
Asbestosis	1930	Asbestos, Occupation and Health (Encyclopedia of Hygiene, Pathology and Social Welfare); Geneva: International Labour Office, Volume I, pp. 189-191 [#3072].	Describes chemical properties of asbestos, technology, industrial uses, dangers and hygiene, and legislation.
Compensation; asbestosis	1930	Compensation act to be extended to asbestosis, Journal of the American Medical Association 94:2078, June 28.	Bill was introduced into British parliament to extend provisions of workmen's compensation act to processes involving exposure to asbestos. "Fourteen fatal cases had now been reported and in addition three deaths from asbestosis associated with tuberculosis."
Asbestos industry; asbestosis	1930	Composition roofing, Industry Report 5:3, March	Discusses hazards in the manufacture of asphalt and asbestos roofing, including asbestosis, according to abstract in American Journal of Public Health 20:552, 1930.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 202 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos bodies	1930	W.E. Cooke and C.F. Hill, Further observations on pulmonary asbestosis, with special reference to asbestos dust and the curious bodies found in the lungs, Journal of the Royal Microscopical Society 50:15-19 [#3074].	Discusses the microscopic examination of lung sections from asbestos workers.
Asbestos corns	1930	A.P. Dewirtz, Asbestwarzen, Archiv fuer Dermatologie und Syphilis 161:1-5.	A brief description of the histology of warts or corns occurring in asbestos workers.
Asbestosis	1930	V. Dhers, Amiante et asbestose pulmonaire, Medecine du Travail 1:147-172 and 2:187-209.	Discussion of history, industrial uses, mining and manufacturing of asbestos, and pathology, radiology, diagnosis, treatment, prevention and compensation of pulmonary asbestosis.
Fiber type	1930	L.U. Gardner, Will the inhalation of siliceous dusts activate a partially healed focus of tuberculous infection? An experimental study, Public Health Reports 45:282-288, February 7 [#3075].	Theorizes that silica in such silicates as asbestos is the reason the dust is harmful.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 203 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Animal studies	1930	L.U. Gardner and D.E. Cummings, Inhalation of asbestos dust: Its effects upon primary tuberculous infection, Silicosis: Records of the International Conference Held at Johannesburg, 13-27 August 1930; Geneva: International Labour Office (Studies and Reports Series F [Industrial Hygiene] No. 13), pp. 563-565 [#3088].	A summary of an experimental investigation of inhaled asbestos dust, dealing with the reaction in normal and tuberculous animals.
Animal studies	1930	S.R. Gloyne, The reaction of tissues to the asbestos fibre, with reference to pulmonary asbestosis, Tubercle 11:151-153 [#3076].	Describes experiments involving injection of asbestos into guinea pigs and rabbits.
Asbestos bodies	1930	J.F.C. Haslam, Pulmonary asbestosis, Recent Advances in Preventive Medicine; Philadelphia: P. Blakiston's Son & Co., pp. 265-285 [#3077].	Primarily a discussion of work on identifying asbestos bodies, with a brief review of case reports to date.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 204 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Hazardous processes	1930	G. Loriga, Pneumoconiosis in Italy, Silicosis: Records of the International Conference Held at Johannesburg, 13-27 August 1930; Geneva: International Labour Office (Studies and Reports Series F [Industrial Hygiene] No. 13), pp. 481-504 [#3333].	Includes a brief discussion of Scarpa's 1908 report of 30 Italian asbestos workers. "All died in less than a year after the first medical examination... The author claims therefore that the asbestos industry is one of the most dangerous of those industries involving predisposition to pulmonary tuberculosis."
Asbestosis; fiber type	1930	D. Lovisetto, Pulmonary asbestosis, Silicosis: Records of the International Conference Held at Johannesburg, 13-27 August 1930; Geneva: International Labour Office Studies and Reports Series F (Industrial Hygiene) No. 13, pp. 506-509 [#3089].	Observation of Italian asbestos factory workers since 1902 found cases of three workers with "symptoms sufficient to warrant suspension of work." Notes that blue asbestos "contains the kind of dust which exerts the strongest effect."
Asbestosis	1930	K.M. Lynch and W.A. Smith, Asbestosis bodies in sputum and lung, Journal of the American Medical Association 95:659-661, August [#3078].	A report on autopsy findings from two American asbestos mill workers and results of sputum examination of four other asbestos factory workers. First report of asbestosis in American asbestos workers.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 205 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis; threshold levels	1930	E.R.A. Merewether, The occurrence of pulmonary fibrosis and other pulmonary affections in asbestos workers, Journal of Industrial Hygiene 12(5):198-222, May, and 12(6):239-257, June [#3079].	A study of the British asbestos industry involving examination of 363 workers. Found 26.2 percent with pulmonary fibrosis due to the inhalation of asbestos and another 5.8 percent showed "precursive signs" of disease. No threshold level value (TLV) is recommended but dust levels should be same or lower than those found in the spinning process since the latter process was relatively free of disease.
England; asbestosis; hazardous processes	1930	E.R.A. Merewether and C.W. Price, Report on Effects of Asbestos Dust on the Lungs and Dust Suppression in the Asbestos Industry, Part I: Occurrence of pulmonary fibrosis and other pulmonary affections in asbestos workers; Part II: Processes giving rise to dust and methods of its suppression; London: H.M. Stationery Office [#3067].	Home Office report on 1928-1929 study of British asbestos industry. Information in Part I is similar to that given by Merewether in Journal of Industrial Hygiene articles (above). Part II notes that in addition to manufacturing work, certain other work involves the "use or manipulation of asbestos or products containing it. The insulating of boilers, pipes, engines, and parts of ships is the most important."
Asbestosis	1930	R.G. Mills, Pulmonary asbestosis: Report of a case, Minnesota Medicine 13:495-499, July [#3080].	First case report in American medical journal of asbestos-related disease in man who had worked in asbestos mine in South America 32 years prior to death. Death occurred from heart disease, and "the extreme dilatation of the right side of the heart is probably attributable to the fibrosis of the lungs."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 206 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Dust control	1930	Mineral dust in factories, Engineering 129(3355):577-578, May 2.	Discusses Merewether and Price report (above) and the need for dust control to reduce incidence of disease.
Asbestosis	1930	G. Mussa, Clinical and radiological notes on pneumoconiosis due to asbestos, Silicosis: Records of the International Conference Held at Johannesburg, 13-27 August 1930; Geneva: International Labour Office (Studies and Reports Series F [Industrial Hygiene] No. 13), p. 509 [#3332].	Reports on examinations of workers employed in an Italian asbestos factory. All the workers who have worked for some time show evidence of disease.
Asbestosis	1930	T. Oliver, Pulmonary asbestosis: A sociomedical study, Archiv fur Gewerbepathologie und Gewerbehygiene 1:67-76 [#3081].	Primarily a review of the medical literature. Author describes 1925 visit to Thetford mines, along with F.L. Hoffman of U.S. Bureau of Labor. "Neither the manager nor the doctor who accompanied me admitted that the men had suffered in their health by following their vocation. . . . It was stated, however, that several men had died from chronic pulmonary disease, but there had not been any autopsies."
Asbestosis	1930	V.M. Palmieri, Asbestosis, Riforma Med. 46:1207	Appears to be a general discussion of symptoms, diagnosis, prognosis, autopsy findings and asbestos bodies.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 207 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis; hazardous processes	1930	F.G. Pedley, Asbestosis, Canadian Medical Association Journal 22(2):253-254, February [#3073].	An editorial discussing the pathology of asbestosis. "Since the reported cases of this disease have occurred largely among spinners and weavers, it is possible that the mining and crushing of asbestos does not present a hazard. The failure to recognize the disease in Canada, however, is no evidence of this, for in other occupations experience has shown that large groups of men suffer serious occupational effects which go unrecognized for years."
Asbestosis	1930	F.G. Pedley, Asbestosis, Canadian Public Health Journal 21(1):576-577, January [#3082].	No case of pneumoconiosis from asbestos has been reported in Canada, "and the general impression among miners is that the dust is not hazardous." As far as public health is concerned, "it seems hardly likely that asbestosis will become of importance either from the standpoint of morbidity or mortality."
Animal studies	1930	A. Policard and V. Mouriquand, Reactions tissulaires provoquees par l'injection intra-conjontive de particules d'amiante, Lancette Francaise 103:737, May 17.	
Asbestos industry; asbestosis; dust control	1930	Pulmonary asbestosis, Asbestos, March, p. 20.	U.S. Bureau of Labor Statistics is giving attention to pulmonary asbestosis and urging installation of exhaust systems. "This disease has been noted in England, and much has been written about it but this is the first time, to our knowledge, that it has been officially discussed in this country."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 208 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1930	Pulmonary asbestosis, Lancet 1:701-702, March 29 [#3083], and 1:870-871, April 19 [#3084]. Similar information also published in Monthly Labor Review 31(1):74-76, July, and British Medical Journal 1:789 [#3085].	Discusses Merewether and Price report (above).
Asbestosis	1930	Pulmonary asbestosis, Journal of the American Medical Association 95(19):1431, November 8 [#3086].	Reviews Mills' report (above) and compares asbestosis with siderosis.
Asbestosis; insulators; union knowledge	1930	The "pulmonary asbestosis" menace, Asbestos Worker 9(9):9-11, September [#3087].	"The increasing use of a very necessary product has created a new occupational hazard, that must be taken into account by Asbestos Worker," which is the official publication of the International Association of Heat and Frost Insulators and Asbestos Workers.
Dust control	1930	Pulmonary disease caused by asbestos dust, Monthly Labor Review 30(2):82, February.	Asbestos "use has grown rapidly in the past 20 years and the fact that all processes from extraction onward involve a considerable hazard makes essential the installation of efficient exhaust systems and the introduction of other safety measures."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 209 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1930	Silicosis: Records of the International Conference Held at Johannesburg, pp. 13-27 August 1930; Geneva: International Labour Office (Studies and Reports Series F [Industrial Hygiene] No. 13).	Item 23 of the resolutions adopted by the conference, which describes the pathology and diagnosis of asbestosis, appears to be the first official statement on asbestosis by an international medical/scientific group.
Asbestosis	1930	W.B. Soper, Pulmonary asbestosis: A report of a case and a review, American Review of Tuberculosis 22:571-584 [#3091].	Case report of asbestosis in asbestos worker employed in brake lining manufacture. Notes that the "condition would appear to be much more widespread than at present suspected and regarding which but little has as yet appeared in American medical literature."
Compensation; asbestosis	1930	The Silicosis Bill, Journal of the American Medical Association 94(4):277, July 26.	Reports that bill in the British House of Commons would extend compensation to asbestos workers "who number about 2,200 of whom 1 in 8 have been found affected with silicosis."
Animal studies	1930	M.J. Stewart, Asbestosis bodies in the lungs of guinea pigs after three to five months' exposure in an asbestos factory, Journal of Pathology and Bacteriology 33:848 [#3092].	Examination of lungs of guinea pigs after 12, 15 and 20 weeks in two asbestos factories found asbestos bodies but "no appreciable degree of fibrosis or aveolar wall thickening."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 210 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Hazardous processes	1930	H.S. Willis, Pneumoconiosis and tuberculosis, Medicine 9(4):413-506, December [#3093].	Primarily a monograph on silicosis, but refers to Merewether's conclusion that "the asbestos industry is a distinct hazard to health."
Asbestosis	1930	W.B. Wood and S.R. Gloyne, Pulmonary asbestosis, Lancet 2:445-448, March 1 [#3094].	Reviews knowledge to date on effects of asbestos inhalation. Authors currently have 37 cases, including four asbestos workers with doubtful diagnosis.
Asbestosis	1930	W.B. Wood and D.S. Page, A case of pulmonary asbestosis: Death from tuberculosis two years after first exposure to the dust, Tubercle 11:157-158, January [#3095].	Describes autopsy findings in British asbestos spinner with 15 months' exposure and no radiographic evidence of pneumoconiosis.
Insurance industry; compensation; asbestosis	1930	Workmen's Compensation (Silicosis and Asbestosis) Act, 1930, Post Magazine and Insurance Monitor, August 23, p. 1693.	Reports on British extension of Workmen's Compensation Act to include industries involving asbestos dust exposure.
England; dust control	1931	Annual Report of the Chief Inspector of Factories and Workshops for the Year 1930; London: H.M. Stationery Office, pp. 49-50 and 82 [#4698].	Describes meetings held with British asbestos textile manufacturers, and recommendations adopted for suppression of asbestos dust. The need for a reliable respirator for dusts is noted, and the existence of a threshold for health effects is called "an important assumption."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 211 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
England; compensation; asbestosis	1931	Asbestos Industry (Asbestosis) Scheme, Statutory Rules and Orders, 1931, No. 344; London: H.M. Stationery Office, April 30.	Scheme specifies conditions for compensation for asbestosis effective June 1, 1931. The Scheme only applies to asbestos processes listed.
England; dust control; respirator use	1931	Asbestos Industry Regulations, Statutory Rules and Orders, 1931, No. 1140; London: H.M. Stationery Office, December 31.	Requires dust control equipment, use of respirators in certain situations, and specific work practices. Regulations take effect March, 1932.
Asbestosis; compensation	1931	Asbestosis and silicosis, British Medical Journal 1:379 [#3055]. Similar information published in Lancet 1:502, February 28 [#3054].	Reports on British parliamentary discussion on compensation scheme for asbestosis.
Asbestosis	1931	C. Badham, The International Silicosis Conference held in Johannesburg, August, 1930, Journal of Industrial Hygiene 13(5):169-182, May [#3056].	Includes synopses of discussions on asbestosis and reprints the resolution on asbestosis adopted by the conference.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 212 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1931	E. Beintker, Die Asbestosis der Lungen, Archiv fuer Gewerbepathologie und Gewerbehygiene 2:345-358.	Postmortem examination of two cases of pulmonary asbestosis occurring in a German factory.
Asbestosis	1931	Board for silicosis and asbestosis, Journal of the American Medical Association 27(2):113, July 11.	Describes British regulations for examination and certification of workers under the compensation schemes for silicosis and asbestosis.
Asbestosis; compensation	1931	A. Buresch, Asbestlunge als Berufskrankheit und das Reichsversicherungs-gesetz, Deutsche Medizinische Wochenschrift 57:1100-1102 and 57:1247-1249, July 17.	Discusses Germany's federal insurance law for asbestosis, and reports case of asbestosis in German factory worker.
Asbestosis	1931	W. Buttner-Wobst and C. Trillitzsch, Die Bergflachslunge (Asbestosis) und was der deutsche Arzt von ihr wissen muss, Die Tuberkulose 11:11-14, January.	Eight cases from a German asbestos factory showing a definite association between asbestosis and tuberculosis. Symptoms may subside if patient is removed early from exposure.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 213 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1931	E.L. Collis, Occupational dust diseases, Bulletin of Hygiene 6(9):663-670, September [#3057].	Asbestosis "is more distressing in life and more rapid in its progress than silicosis."
Hazardous processes	1931	E.L. Collis, Recent views on pneumonoconioses, Proceedings of the Royal Society of Medicine 24:531-540 [#3058].	"Almost suddenly a whole literature has sprung up related to the dust known as asbestos."
Asbestosis; fiber type	1931	W.E. Cooke, Asbestos dust and asbestosis bodies from the lungs of an asbestos worker, Journal of State Medicine 39:544-548 [#3059].	Cases of asbestosis "have all been workers in Canadian or African chrysotile. . . . So far as one can ascertain no case of pulmonary asbestosis has been recorded in a worker in iron free asbestos such as occurs in Arizona, Italy and Finland."
Asbestosis	1931	P. Ellman, Pulmonary asbestosis, Proceedings of the Royal Society of Medicine 24:526-528 [#3061]. Similar information published by Ellman in Proceedings of the Royal Society of Medicine 24:541 [#3060] and 24:699-703 [#3313].	Case reports of asbestosis in British asbestos factory workers.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 214 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1931	A. Feil, La pneumoconiose des travailleurs de l'amiante, Presse Medicale 101:1872-1874, December 19.	Describes similarities and differences between silicosis and asbestosis through a review of the literature.
Animal studies	1931	L.U. Gardner and D.E. Cummings, Studies on experimental pneumonokonioses. VI. Inhalation of asbestos dust: Its effect upon primary tuberculous infection, Journal of Industrial Hygiene 13(2):65-81, February and 13(3):97-114, March [#3062].	Saranac Laboratory experimental studies in guinea pigs, white rats and rabbits, using chrysotile from Asbestos Corporation of America, started in January, 1928.
Asbestos bodies; asbestosis	1931	S.R. Gloyne, The presence of asbestosis bodies in the faeces in a case of pulmonary asbestosis, Tubercle 12:158-159, January [#3065].	An alternative method for diagnosing asbestosis when no sputum is available from the patient.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 215 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos bodies	1931	S.R. Gloyne, A method of staining the asbestosis bodies found in the sputum of asbestos workers, Journal of Industrial Hygiene 13(3):85-86, March [#3064].	A procedure for staining asbestos bodies for study.
Asbestos bodies	1931	S.R. Gloyne, The formation of the asbestosis body in the lung, Tubercle 12:399-401, June [#3063].	"It seems probable that the asbestosis body is formed in the lung by the deposition of certain material on the inhaled fibre... There is evidence that iron is a component of this material."
Asbestosis	1931	F. Holtzmann, Die Einwirkung des Asbeststaubes, Zentralblatt fuer Gewerbehygiene und Unfallverhuetung 18(9):225-226, September.	A case report of asbestosis in a German asbestos textile worker.
Asbestosis	1931	E. Kruger, O. Rostoski and E. Saupe, Ueber Lungenasbestose, Archiv fuer Gewerbepathologie und Gewerbehygiene 2:558-590. Similar information published by Saupe in Muenchener Mediziniche Wochenschrift 78:979, June 5.	Of 52 German asbestos factory workers examined, 30 showed definite lung changes. None of the workers with 10 years' or more exposure were free from signs of the disease.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 216 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
X-ray abnormalities	1931	H.R.M. Landis, Diseases of the lungs, Diseases of the Chest and the Principles of Physical Diagnosis, 4th edition (G.W. Norris and H.R.M. Landis, editors); Philadelphia, PA: W.B. Saunders, pp. 343-644.	Comments on mottling seen in chest x-rays of asbestos workers are the same as in the third edition published in 1927.
Asbestosis	1931	K.M. Lynch and W.A. Smith, Pulmonary asbestosis II, including the report of a pure case, American Review of Tuberculosis 23:643-660 [#3066].	Autopsy of asbestos factory worker. "In a survey of all available literature on the subject up to the present time we have collected 172 cases of pulmonary asbestosis."
Hazardous processes	1931	C.P. McCord, Industrial Hygiene for Engineers and Managers; New York: Harper & Brothers, pp. 53-117 [#3182].	Includes asbestos in list of 507 occupational disease hazards.
Asbestosis	1931	H.K. Pancoast and E.P. Pendergrass, A review of pneumoconiosis: Further roentgenological and pathological studies, American Journal of Roentgenology 26(4):556-614, October [#3068].	Authors note they recently "had the opportunity of examining the roentgenograms of 58 men from one of the Canadian mines, some of which showed pneumoconiosis." This is the first mention of definite asbestosis in Canadian miners.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 217 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Dust control; fiber release	1931	C.W. Price, Exhaust ventilation in asbestos textile works, Institute of Heat and Ventilating Engineers Proceedings 30:158-179 [#3231]. Also published in Domestic Engineering 51:200-207, October 10, 1931.	Dust control methods in various asbestos manufacturing processes. "The mere handling and cutting of a piece of finished, calendered asbestos cloth will give rise to visible dust, which shows how readily surface particles can be detached and broken up."
England; dust control; dust counts	1931	Report on Conferences between Employers and Inspectors Concerning Methods for Suppressing Dust in Asbestos Textile Factories; London: H.M. Stationery Office [#3069].	Lists method of dust suppression to be used in each asbestos manufacturing process and describes gravimetric determination of dust.
Asbestosis; x-ray abnormalities	1931	O. Rostoski, Lungenasbestose, Kongress fuer innere Medizin 43:334-338.	A review of literature on asbestosis and discussion of x-ray appearance in two cases.
Asbestosis	1931	N.H. Schuster, Pulmonary asbestosis in a dog, Journal of Pathology and Bacteriology 34:751-757 [#3232].	Describes lungs of dog that lived in an asbestos factory for 10 years.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 218 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1931	H.E. Seiler and M.D. Gilmour, A case of pulmonary asbestosis, British Medical Journal 1:1112-1114, June 27 [#3233].	Autopsy of a British asbestos textile worker whose case was first described by Seiler in 1928.
England; medical surveillance	1931	Silicosis and Asbestosis (Medical Arrangements) Scheme, 1931, Statutory Rules and Orders No. 341; London: H.M. Stationery Office.	Describes functions of Medical Board, specifies procedures for medical examinations, and establishes a fund to underwrite costs of examining asbestos and silica workers.
Asbestos bodies	1931	F.W. Simson and A.S. Strachan, Asbestosis bodies in the sputum: A study of specimens from fifty workers in an asbestos mill, Journal of Pathology and Bacteriology 34(1):1-4 [#3234].	Asbestos bodies were found in the sputum of 48 of 50 workers. Presence of bodies does not necessarily imply existence of pulmonary fibrosis.
Asbestosis; disease progression	1931	J.V. Sparks, Pulmonary asbestosis, Radiology 17:1249-1257 [#3070].	Cessation of exposure to asbestos dust does not check the spread of asbestosis.
Asbestosis; respirator use	1931	H.L. Stewart, C.J. Bucher and E.H. Coleman, Asbestosis: Report of two cases, Archives of Pathology 12:909-916, December [#3235].	Report of autopsies on two asbestos factory workers. Exposure in second case was only nine months and "emphasizes again the absolute necessity for wearing masks in even the less dusty atmospheres."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 219 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1931	F.D. Timmermans, Die Lungenasbestosis und die Asbestosiskoerper, ihre Gestalt und Wesenheit, Zentralblatt fuer Gewerbehygiene und Unfallverhuetung 8:280-287, November, and 8:307-309, December.	A review of the medical literature on asbestosis.
Asbestos bodies	1931	F.E. Tylecote and J.S. Dunn, Asbestos-like bodies in lungs of coal miner who had never worked in asbestos, Lancet 2:632-633, September 19 [#3236].	Reports finding bodies in a coal miner's lung similar to those previously considered to be diagnostic of exposure to asbestos dust.
Asbestosis	1931	W.B. Wood and S.R. Gloyne, Pulmonary asbestosis complicated by pulmonary tuberculosis, Lancet 2:954-956, October 31 [#3237].	Twelve of 57 cases of pulmonary asbestosis showed evidence of pulmonary tuberculosis.
England; fiber release	1932	Annual Report of the Chief Inspector of Factories and Workshops for the Year 1931; London: H.M. Stationery Office, pp. 76-77 and 89-91 [#3051].	Amount of asbestos dust to which packers are exposed depends on class of material handled. With some materials like brake linings, the amount is "trifling" and the resultant risk negligible. "With others, such as insulating materials in bulk, insulating sections, and to a less extent, cloth and mattresses, the dust is greater in amount."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 220 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Canada: Ontario; asbestosis	1932	Annual Report of the Division of Industrial Hygiene, Ontario Department of Health, 1931; Ontario, Canada, pp. 47-49.	Of eight men exposed to asbestos dust, three showed minor lung fibrosis and one moderately advanced fibrosis with no tuberculosis, according to abstract of report in American Journal of Public Health 23:271, 1933 [Source I; #4702].
Hazardous processes; insurance industry	1932	Asbestos mining and manufacturing, Industry Report 7:87-101, August.	"Published to Assist Underwriters in Classifying Industrial Hazards," the report discusses potential asbestos health hazards.
Asbestosis	1932	Bader, Asbestose mit Warzenbildung, Muenchener Medizinische Wochenschrift 79:83, March 17.	Case report of asbestosis.
Asbestosis	1932	Bohne, Ueber Asbestose, Deutsche Medizinische Wochenschrift 58:928-930, June 5.	Two cases of asbestosis in German asbestos textile workers.
Hazardous processes	1932	J.C. Bridge, Pneumoconiosis, Lancet 1(5701):1249-1250, December 3 [#3238].	A letter to the editor regarding fatal cases of fibrosis of the lungs in asbestos and silica industries.
Asbestos bodies	1932	W.E. Cooke, Silico-anthracosis presenting curious bodies similar to those in asbestosis, British Medical Journal 1:656-657, April 9 [#3223].	Since bodies similar to those seen in cases of asbestosis are found in lungs of coal miners, such bodies are not specific to asbestosis.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 221 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1932	Diagnosis of lung disease, British Medical Journal 2:363-364, August 20.	A summary of a discussion of the Combined Sections of Medicine and Radiology, British Medical Association, held on July 29, 1932, concerning asbestosis.
Asbestosis	1932	P. Ellman, Silicate dusts [part of chapter on industrial diseases of the lung], Chest Diseases in General Practice; London: H.K. Lewis, pp. 116-121 [#3224].	General discussion of pulmonary asbestosis. "As a result of the new regulations applicable to the asbestos industry [in England], the disease, pulmonary asbestosis, should become extinct."
Asbestos bodies	1932	T. Fahr, Kurze Bemerkungen zur Frage der Asbestose, Klinik Wochenschrift 11:1114.	Discussion of asbestos bodies.
Asbestosis	1932	Gerbis and Ucko, Ueber Asbestosis der Lungen, Deutsche Medizinische Wochenschrift 58:285-287, February 19.	Examination of 33 German asbestos factory workers showed asbestosis in every patient working for more than ten years.
Asbestosis	1932	German work on pulmonary asbestosis, Lancet 2:92-93, July 9 [#3261]. Similar information published in Monthly Labor Review 35(3):541-542, September.	Reviews 1931 and 1932 German studies.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 222 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos bodies	1932	S.R. Gloyne, The asbestosis body, Lancet 222:1351-1356, June 25 [#3052].	A review of the literature on asbestos bodies.
Asbestosis; maintenance workers	1932	B. Gordon, Jr., Pulmonary asbestosis, Pennsylvania Medical Journal 35:637-639, June [#3208].	Case report of janitor diagnosed with asbestosis at autopsy. Patient had been employed, however, in asbestos mine at one time.
Animal studies	1932	E.H. Kettle, The interstitial reaction caused by various dusts and their influence on tuberculous infections, Journal of Pathology and Bacteriology 35:395-406 [#3268].	Describes experiments in mice using both white and blue asbestos and other dusts. "Silica and asbestos cause pronounced pulmonary fibrosis, out of all proportion to the amount in which they may be present in the lung."
England; asbestosis; product use	1932	Memorandum on the Industrial Diseases of Silicosis and Asbestosis; London: H.M. Stationery Office [#3053].	Among the industries and processes listed in which asbestosis occurs is "the sawing, grinding and turning in the dry state of articles composed wholly or partly of asbestos such as motor car brake and clutch linings, electric conductors and packings and jointings."
Asbestosis	1932	Pneumoconiosis, A List of References; Geneva: International Labour Office (Studies and Reports Series F [Industrial Hygiene] No. 15).	Appears to be the first published bibliography of the world medical/scientific literature on the pneumoconioses, including asbestosis, through December, 1931.

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EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
England; hazardous processes	1932	Report of the Medical Research Council for the Year 1930-1931; London: H.M. Stationery Office.	One section of the report discusses pulmonary diseases resulting from dust hazards in various industries, including asbestos manufacture, according to abstract by E.L.C., Journal of Industrial Hygiene 14(8):199-200, October 1932.
Hazardous processes	1932	C.O. Sappington, Dust as an industrial hazard, Industrial Health Digest, March and April.	A "rapid survey" of dust as an industrial problem, including references to asbestos, according to abstract in American Journal of Public Health 22:1094, 1932.
Asbestosis	1932	Silicosis and asbestosis, Lancet 2:1036, November 5.	Discussion in Parliament concerning the number of men examined in the British asbestos industry and the number found disabled.
Asbestos bodies	1932	M.J. Stewart, N. Tattersall and A.C. Haddow, On the occurrence of clumps of asbestosis bodies in the sputum of asbestos workers, Journal of Pathology and Bacteriology 35:737-741, September [#3260].	A report of two cases of asbestos factory workers in which large clumps of asbestos bodies were found in the sputum.
Asbestosis; compensation; hazardous processes	1932	C.L. Sutherland, Workmen's compensation in pulmonary disease, Journal of State Medicine 40:709-716 [#3258].	Describes medicolegal procedures with regard to compensation for silicosis and asbestosis in Britain. "The mere fact that a claimant is suffering from any of the diseases does not entitle him to compensation from his employer. His condition must be due to employment in one or more of the specified processes."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 224 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1932	A. Tarsitano, L'amiantosi professionale, Il Morgagni 74:138-139, January 24.	A general discussion of the etiology, symptoms, diagnosis and pathology of asbestosis.
England; asbestosis	1933	Annual Report of the Chief Inspector of Factories and Workshops for the Year 1932, Including a Review for the Years 1833-1932; London: H.M. Stationery Office, pp. 56 and 105-106 [#3456]. Tables also published in Monthly Labor Review 37(4):864-866, October, and mentioned in American Journal of Public Health 23:140-141.	Lists 42 deaths from asbestosis or asbestosis with tuberculosis. Average length of exposure to asbestos was 13.3 years, and the shortest length of exposure to asbestos "which ultimately caused death from advanced fibrosis of the lungs was 4.4 years."
Asbestos bodies	1933	P.J. Beger, Ueber die Asbestosiskoerperchen, Virchow's Archiv fuer Pathologie und Anatomie 290:280-353.	Review of the literature on asbestos bodies.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 225 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Insurance industry; asbestosis	1933	D.S. Beyer, The mechanical control of occupational diseases, National Safety News 28:21-22, August.	"An analysis of $300,000 in losses of one insurance company doing a general workmen's compensation and liability business for recent industrial disease claims showed 54 percent for cases involving pneumoconiosis (including silicosis, asbestosis, etc.)", according to abstract in Journal of Industrial Hygiene 15(6):117, November, 1933.
Asbestosis	1933	J.C. Bridge, The influence of industry on public health, Proceedings of the Royal Society of Medicine 26(3):942-951, June [#3256].	Notes that compensation has been awarded in Britain in 127 cases of asbestosis.
Asbestosis; litigation	1933	J. Donnelly, Pulmonary asbestosis, American Journal of Public Health 23(12):1275-1281, December [#3044]. Summary also published in Monthly Labor Review 37(6):1377-1384, December.	Notes that civil suits are being brought by asbestos workers against manufacturers in the United States.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 226 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
United States; hazardous processes	1933	L.I. Dublin and R.J. Vane, Occupation Hazards and Diagnostic Signs; A Guide to Impairments to Be Looked for in Hazardous Occupations; Washington, DC: U.S. Bureau of Labor Statistics Bulletin No. 582 [#3045].	A revision of Bulletin No. 306, written by Dublin and Leiboff and published in 1922. Listing for asbestos workers is basically the same, except it notes that asbestos dust produces lung fibrosis.
Asbestosis; product use	1933	P. Ellman, Pulmonary asbestosis: Its clinical, radiological, and pathological features, and associated risk of tuberculous infection, Journal of Industrial Hygiene 15(4):165-183, July [#3046]. Summarized in Monthly Labor Review 37(6):1385-1386, December 1933. Similar information published by Ellman in British Journal of Radiology 7:281-295, 1934 [#3228].	Author has seen 17 definite cases of asbestosis in England, in one of which the patient "had been exposed to asbestos dust for 10 years; but the work, which consisted in coating lead pipes, did not entail high dust concentrations."
Asbestosis	1933	L.U. Gardner, The effects of inhaled mineral dusts, National Safety News 27:34-36, January [#3243].	Describes physiology of asbestos dust inhalation. Morbidity statistics from large groups of asbestos workers are needed to determine extent of effects.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 227 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Animal studies	1933	L.U. Gardner, The pathologic reaction in various pneumonoconioses, Journal of the American Medical Association 101:594-598, August [#3242].	Describes phagocytosis, lymphatic elimination and effect on pulmonary parenchyma of asbestos dust.
Cancer of pleura; asbestosis	1933	S.R. Gloyne, The morbid anatomy and histology of asbestosis, Tubercle 14:445-451, July; 14:493-497, August; and 14:550-558, September [#3047].	"There has also been one case of squamous carcinoma of the pleura. There is no evidence at the moment that this was in any way related to the asbestosis."
Asbestos bodies	1933	S.R. Gloyne, Infra-red photomicrographs of the asbestosis lung, Tubercle 14(5):208-209 [#3708].	Infra-red method shows finer details compared to ordinary photomicrographs of asbestos bodies.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 228 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
United States; compensation	1933	E.R. Hayhurst, Some common industrial health hazards, Proceedings of the Nineteenth Annual Meeting of the International Association of Industrial Accident Boards and Commissions, Held at Columbus, Ohio, September 26-29, 1932; Washington, DC: U.S. Bureau of Labor Statistics Bulletin No. 577, April, pp. 190-205 and 217-224.	"Up to the present time silicosis, asbestosis, and other forms of occupational diseases of the lungs have not been included in the compensation schedules of those states using the schedule method, but such may be compensable in the 10 states, insular possessions and Federal employees' divisions having blanket coverage."
Insurance industry; asbestosis	1933	A.J. Lanza, Comments on asbestos, Proceedings of the Home Office Life-Underwriters' Association and the Occupational Committee November, 1933 Meeting, Volume 7; Philadelphia, PA: George S. Ferguson Co., pp. 296-302.	Describes Metropolitan Life Insurance Company study of the asbestos industry in 1930 and 1931, including Thetford mines in Quebec and fabricating plants in the United States.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 229 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1933	H.R.M. Landis, Diseases of the bronchi, lungs, pleura, and diaphragm, Diseases of the Chest and the Principles of Physical Diagnosis, 5th edition (G.W. Norris and H.R.M. Landis, editors); Philadelphia, PA: W.B. Saunders Company, pp. 351-670 [#3240].	"Asbestosis dust is a comparatively recent offender, or perhaps it would be better to say an old one just brought to light." Most cases of asbestosis have developed in the British Isles.
Insulators; x-ray abnormalities; product use	1933	E.R.A. Merewether, A memorandum on asbestosis, Tubercle 15:69-81, November, and 15:109-118, December [#3048].	Describes lung changes in workers using 85% magnesia insulation, which are "totally distinct from either typical silicosis or typical asbestosis and from appearances intermediate between the two. It is impossible to say what the underlying lung lesion may or may not be, as no autopsy findings are available."
United States: Pennsylvania; compensation; asbestosis	1933	Occupational Disease Compensation, A Report by the Pennsylvania Commission on Compensation for Occupational Disease to Gifford Pinchot, Governor.	Although exposure to asbestos dust causes asbestosis, in majority of cases no definite disability is associated with it. "The present knowledge of the subject is too meagre to justify the inclusion of asbestosis in the schedule [of compensable diseases]."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 230 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1933	H.K. Pancoast and E.P. Pendergrass, The roentgenological aspects of pneumoconiosis and its medico-legal importance, Journal of Industrial Hygiene 15(3):117-135, May 1933 [#3191].	Includes discussion of x-ray, clinical and pathological characteristics of asbestosis, and a review of the literature on asbestosis.
Insulators; asbestos in buildings; asbestosis	1933	A.E. Russell [untitled address], Proceedings of Conference Concerning Effects of Dusts upon the Respiratory System; Madison, WI: Industrial Commission of Wisconsin, pp. 167-207 [#3049].	Case of asbestosis in pipe insulator in U.S. Government hospital who received compensation from the government.
Asbestosis; fiber type	1933	A.E. Russell, Silicosis and associated respiratory diseases, Journal Lancet 53(22):599-609 and 621, November 15 [#3193].	Notes "there is some evidence that different varieties of asbestos produce asbestosis in varying degrees of severity," but more research is needed in this area.
Asbestosis; insurance industry	1933	Silicosis; New York: Metropolitan Life Insurance Company [#3239]. Similar information published in Safety Engineering, December, pp. 211-212.	Mentions asbestosis as a lung condition produced by asbestos, but states silicosis is by far the most important of the dust diseases because it distinctly predisposes to tuberculosis.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 231 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1933	Silicosis and allied diseases of the lungs, Lancet, February 4, pp. 253-254.	Claims that asbestosis is a more serious disease than other pneumoconioses, proving fatal after 13 to 15 years of employment, although tendency to tuberculosis is significantly less.
Asbestosis	1933	G.A. Stock, Pulmonary asbestosis, Medical Bulletin of the Veterans Administration 10:126-129, October [#3050].	Case report of asbestosis in an asbestos textile worker. "Pulmonary asbestosis is undoubtedly encountered without being recognized as such."
Asbestosis	1933	H. Stroebe, Bericht ueber den Fall von Lungenasbestosis, Virchow's Archiv fuer Pathologie and Anatomie 290:354-357.	Case report of asbestosis in a German factory worker.
Asbestosis	1934	O. Amendola, Asbestosi polmonare, Il Morgagni 76:16-18, January 7.	Discusses Ellman's 1933 paper on asbestosis (above).
Asbestosis	1934	Annual Report of the Chief Inspector of Factories for the Year 1933; London: H.M. Stationery Office, pp. 57-65 [#3218]. Data also published in Monthly Labor Review 39(6):1398-1400, December.	Fifty-three deaths from asbestosis or asbestosis with tuberculosis.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 232 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Product use	1934	Asbestos, Industrial Bulletin 13:95, April [#3179].	Cautions manufacturers and handlers of asbestos products to prevent "trouble," because disease from breathing asbestos dust can be prevented, but there is no cure.
Asbestosis; hazardous processes; fiber type	1934	Asbestos dusts, Safety Engineering 68(2):74, August.	Do not know why asbestosis is more common in some processes than in others. "An explanation of this may lie in the marked difference between various kinds of asbestos."
Hazardous processes	1934	Asbestosis, Lancet 2:1196, November 24.	A discussion in the British House of Commons on the Asbestos Industry Regulations. "Special inquiry in 1932 as to the risks in warehouse and certain other processes revealed no need for any extension of the regulations, but their effectiveness will continue to be closely watched."
Asbestos bodies	1934	P.J. Beger, [Asbestosis: Particle-construction], Deutsche Medizinische Wochenschrift 60:231, February 9.	The difference between asbestosis and silicosis appears to lie in the formation of asbestos bodies following the inhalation of asbestos dust.
Fibrosis	1934	P.J. Beger, Ueber den Schadigungsfaktor bei Asbestosis und Silikosis, Medizinische Klinik 30:1222-1227, September 14 and 30:1258-1261, September 21.	Theorizes that it is not the mechanical irritation of asbestos fibers that determines fibrosis, but the solution and subsequent absorption of silicic acid from the fibers.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 233 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos bodies	1934	P.J. Beger, Weiteres ueber die Asbestosis-koerperchen, Virchow's Archiv fuer Pathologie und Anatomie 293:530-539, October.	Asbestosis advances more quickly and severely than silicosis because asbestos body formation speeds up the solution of silicic acid from the asbestos fiber.
Asbestos bodies	1934	E. Beintker, Ueber die Asbestosiskoerperchen, Virchow's Archiv fuer Pathologie und Anatomie 293:527-529.	Asbestos bodies are not the cause of asbestosis.
Asbestosis	1934	S.C. Blacktin, Dust; Cleveland, OH: Sherwood Press, pp. 228-255 [#3194].	Chapter on the pathology and physiology of dusts includes discussion of asbestos and asbestosis.
Asbestosis	1934	G.G. Davis, E.M. Salmonsen and J.L. Earlywine, The Pneumonokonioses (Silicosis): Bibliography and Laws; Chicago, IL: Industrial Medicine, Inc. [#3262].	Survey of medical/scientific literature on the pneumoconioses to December 1933, compiled "for the permanent convenience of physicians, surgeons, lawyers, industrial executives, librarians, journalists, engineers, trade-association officials, students and research workers." Over 100 references are listed for asbestosis.
Asbestosis	1934	H. Desoille, Pneumoconioses problem, Medecine (supplement) 15:1-56, October.	A monograph reviewing the various dust diseases, including asbestosis, according to abstract in The Pneumonokonioses (Silicosis): Literature and Laws of 1934, Chicago Medical Press, 1935, pp. 54-57.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 234 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1934	J.L. Dubrow, Pneumonoconiosis, with special reference to some of its complications, Radiology 22:202-211, February [#3263].	A general discussion of dust diseases, including asbestosis.
United States: Connecticut; dust counts	1934	Forty-Ninth Report (57th Year) of the State Department of Health for the Year Ended June 30, 1934; Hartford, CT: State of Conecticut Public Document No. 25, pp. 503-511.	Includes section on asbestos dust hazards and discusses dust sampling undertaken at asbestos manufacturing facilities within the state, indicating counts by industrial process and noting effectiveness of dust control equipment in reducing counts.
Asbestosis; disease progression	1934	F.S. Fowweather, Silica content of normal and silicotic lungs: Its bearing on the silicosis problem, Refractories Journal 10:173-177, May [#3229].	Discusses cases of five asbestos workers and concludes that disease progresses even if exposure ceases.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 235 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
United States: Pennsylvania; dust counts	1934	W.B. Fulton, R.L. Houtz, A. Dooley and J.L. Matthews, Asbestosis -- Part I, The Collection and Counting of Dust Encountered in Asbestos Fabricating Plants; Pennsylvania Department of Labor and Industry (Special Bulletin No. 37), October 1 [#3033].	Gives data on 150 dust samples taken in asbestos-fabricating plants in Pennsylvania.
Asbestosis	1934	L.U. Gardner, Dust: Effects of inhaling the dusts of minerals, Canadian Mining Journal 55:370-371, August [#3230].	The arrangement of scar tissue in asbestosis is quite different from the nodular collections in silicosis. Surveys of living asbestos workers have failed to demonstrate any excess of tuberculosis.
Asbestosis	1934	L.U. Gardner, The pathology of various mineral dust diseases, Safety Engineering 67:109-112, March [#3215].	"While not so spectacular as the nodulation of silicosis, the fibrosis of asbestosis probably disables its victim more rapidly."
Insurance industry; asbestosis; threshold level	1934	R.N. Gray, Asbestosis, Attorney's Textbook of Medicine; Albany, NY: Matthew Bender & Company, pp. 27-38 [#3035].	Written by Surgical Director, Aetna Life Insurance Company. Implies asbestos products are not harmful if dust is not liberated. Estimates asbestos threshold level to be 13.5 mppcf.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 236 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Dust counts	1934	T. Hatch and C.L. Pool, Quantitation of impinger dust samples by dark-field microscopy, Journal of Industrial Hygiene 16:177-191, May [#3216].	Dark-field technique yields greatly increased asbestos count, for example, 73.2 mppcf in sewing asbestos sheets, compared to 6.74 mppcf using light-field technique.
Litigation; threshold level	1934	E.V. Hill, Determination of air dust, Aerologist 10:6-7, April [#3217].	Describes experience in testifying as expert in case where the plaintiff claimed to have acquired asbestosis in an asbestos-product manufacturing plant. "Counsel for the defense introduced evidence to show that less than 5 million particles per cubic foot would be harmless."
Asbestosis	1934	R.H. Jaffe, The pathology of pneumoconiosis, Illinois Medical Journal 66:431-437, November [#3220].	A discussion of silicosis and asbestosis from the standpoint of their gross and microscopic pathology.
Asbestosis; compensation	1934	F.R. Jones, How compensable is disease? Safety Engineering 67:117-119, March.	If silicosis and asbestosis are to be made compensable, they must be "distinctly defined and the right to compensation for them must be specifically and strictly regulated and conditioned."
Respirator use	1934	W.R. Jones, Silicosis: The minerals which cause it, Refractories Journal 10:177-185, May [#3221].	"A method of supplying employees directly with clean air through a light cover over the nose and mouth is about to be tried in a London asbestos factory. When it has been in successful operation, full details of it will be published."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 237 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1934	T. Leary, Variation in lung lesions produced by silica and the silicates, Safety Engineering 68:41-42, July.	Describes four cases of asbestosis.
Asbestosis	1934	T. Legge, Industrial Maladies; London: Oxford University Press, pp. 190-194.	Includes a section on asbestosis. "Looking back in the light of present knowledge, it is impossible not to feel that opportunities for discovery and prevention were badly missed."
Asbestosis	1934	W.S. McCann, A. Hurtado, N. Kaltreider and W.W. Fray, The estimation of functional disability in the pulmonary fibroses, Journal of the American Medical Association 103:810-815, September 18 [#3244].	Describes the degree of functional disability observed in cases of asbestosis.
Asbestosis; compensation; dust control	1934	E.R.A. Merewether, A memorandum on asbestosis, Tubercle 15:152-159, January [#3039].	The conclusion of an article published in three parts, beginning in 1933. Discusses British regulations for control of dust and for compensation, and reviews literature from other countries on asbetosis.
Asbestosis	1934	The pathology of pneumoconiosis: A review, American Journal of Medical Sciences 188:418-437 [#3195].	Relates primarily to silicosis, but contains a brief discussion of asbestos health effects and lists some of the clinical and experimental papers in the medical literature on asbestos.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 238 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis; compensation	1934	Pulmonary asbestosis held compensable under Workmen's Compensation Act, North Carolina Supreme Court, Public Health Reports 49:1273-1274, October 26.	North Carolina Supreme Court rules that asbestosis is a compensable disease.
Asbestosis; household exposure	1934	G. Quarelli and A. Velicogna, Tracheite da asbesto, La Medicina del Lavoro 25:218-223.	A case report of disease in an Italian asbestos textile worker. Advises all asbestos workers to wear a uniform to prevent their carrying back to their homes any dangerous particles.
Asbestosis	1934	Recent studies on silicosis, Canadian Medical Association Journal 31:304-306, September [#3265].	As asbestos is a silicate, there seems to be no very good reason for separating it from other forms of silicosis unless, indeed, on the basis of a somewhat different morbid anatomy.
Asbestosis; compensation	1934	Report to the General Court of the Special Industrial Disease Commission Under Chapter 43, Resolves of 1933; Boston: Commonwealth of Massachusetts House Report No. 1350, February.	Includes a description of British compensation schemes for silicosis and asbestosis. Recommends that medical staff be added to the Massachusetts Department of Public Health in order to investigate all cases coming before the Industrial Accident Board for compensation for silicosis, asbestosis or pulmonary tuberculosis.
Asbestosis	1934	R.R. Sayers, The health of workers in dusty trades, Illinois Medical Journal 66:421-427, November [#3248].	"Asbestosis, a fibrosis of the lungs caused by the inhalation of asbestos dust, has been described both in its clinical and roentgenographic manifestations by investigators in other countries, but to date no studies have been reported in the United States."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 239 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Insurance industry; asbestosis	1934	O.F. Scott, R_x for pneumonoconiosis, Insurance Index, pp. 11, 50-54, September.	Accounts for seven types of pneumoconiosis due to dusts from silica, asbestos, limestone clay, iron, coal and sulphur, according to abstract in The Pneumoconioses (Silicosis): Literature and Laws of 1934, Chicago Medical Press, 1935, pp. 332-333.
Asbestosis	1934	Silicosis and allied diseases, Refractories Journal 10:171 and 173, May.	Discussion during Joint Meeting of the Refractories Association of Great Britain and the Society of Chemical Industry noted that asbestosis has only been a problem the past few years.
Asbestosis	1934	Silicosis and asbestosis, Chemical Trade Journal 95:92, August 10 [#3264].	Reports the "far from unanimous" medical opinion on the causes of silicosis and asbestosis during a recent session of the Institution of Mining Engineers and notes "the actual seriousness of the diseases is a matter which, unfortunately, leaves no room for doubt."
England; medical surveillance	1934	The Silicosis and Asbestosis (Medical Arrangements) Amendment Scheme, 1934, Statutory Rules and Orders No. 889; London: H.M. Stationery Office.	Amends British regulations relating to the medical examination of workers exposed to silica or asbestos dust.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 240 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1934	M. Sternberg, Occupational diseases: Respiratory system, Occupation and Health, Encyclopedia of Hygiene, Pathology and Social Welfare; Geneva: International Labour Office, Volume II, pp. 454-464 [#3247].	Includes a review of the medical literature, primarily British, on asbestosis.
Asbestos bodies	1934	M.J. Stewart, A concentration method for the demonstration of asbestos bodies in the sputum, Journal of Technical Methods 13:70-71, March [#3246].	A modification to the laboratory technique for identifying asbestos bodies.
Asbestos bodies	1934	M.J. Stewart, Silica in relation to pulmonary disease, Edinburgh Medical Journal 41:226-232, March [#3245].	Discusses theory that the fibrous silicate sericite is the causative agent for pneumoconioses but states "asbestosis is definitely due to the fibrous silicate, asbestos." Includes extensive description of asbestos bodies.
Asbestosis; hazardous processes	1934	W.M. Stockwell, Silicosis and asbestosis, Ounce of Prevention, September, pp. 5-6.	With respect to asbestosis, author states: "Just how widespread this disease is at present is unknown. Personally, I have seen it only in weavers of brake linings."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 241 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Animal studies	1934	K. Stuber, The cellular response of lumph nodes to various dust suspensions introduced into lymphatics, Journal of Industrial Hygiene 16(5):282-295, September.	Describes the cellular reaction following injection of silica, asbestos and other dust particles into the lymphatics of the legs of dogs.
X-ray abnormalities	1934	Symposium on Silicosis: An unofficial transcript of the Silicosis Symposium held in connection with the Trudeau School of Tuberculosis at Saranac Lake, New York, June 18 to 22, 1934 (B.E. Kuechle, editor); Wassau, WI: Employers Mutuals [#3034 and #3040].	The proceedings include a discussion of asbestos effects in animal experiments by L.U. Gardner and a review of characteristic x-ray changes in asbestosis, based upon examination of films of over 100 asbestos workers, by H.L. Sampson.
Asbestosis	1934	W.B. Wood, Pneumoconiosis, Part II -- Pulmonary asbestosis, British Journal of Radiology 7:277-280, May [#3042].	A general discussion of asbestosis, based on author's experience with 80 cases in British factory workers.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 242 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis; cancer; product use	1934	W.B. Wood and S.R. Gloyne, Pulmonary asbestosis: A review of one hundred cases, Lancet 2:1383-1385, December 22 [#3043].	Majority of cases were in British asbestos factory workers, but cases also included owner of a small factory, "van boy" who mixed powdered asbestos, a boiler riveter in a shop where asbestos was used for lagging pipes, and a man employed in handling asbestos mattresses at an airfield. The 12 deaths included "2 with carcinoma of the lung and 1 with a few deposits of growth in the pleura."
Asbestosis; compensation	1934	Workmen's Compensation for Occupational Diseases, Partial Revision of the Convention Concerning Workmen's Compensation for Occupational Diseases; Geneva: International Labour Conference, (Report V [Supplement]), pp. 203-320.	Includes review of British schemes for compensation of asbestosis.
Asbestosis; compensation	1934	Workmen's compensation for silicosis, Safety Engineering, February, pp. 71-74.	Two cases of asbestosis were reported to the Connecticut Board of Health in the year ending June 30, 1931, one of which was compensated. Also reports that Ontario [Canada] Board of Health surveyed selected groups of workers exposed to dust, including asbestos workers, in 1931.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 243 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

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Asbestosis	1935	F. Alwens, Ueber Asbestose der Lungen, Muenchener Medizinische Wochenschrift 82:1797-1800, November 8.	A report of findings in 35 German asbestos factory workers.
England; asbestosis; dust control	1935	Annual Report of the Chief Inspector of Factories for the Year 1934; London: H.M. Stationery Office, pp. 62-65 [#2988]. Data also given in Monthly Labor Review 41(3):640-642, September [#3010] and in British Medical Journal 2:167-168, July 27 [#3210].	"Total number of deaths coming to the knowledge of the Department over a number of years" is 41 from asbestosis and 26 from asbestosis with tuberculosis. Describes improvements in ventilation during the three years the asbestos industry regulations have been in effect in England.
United States; asbestosis	1935	Annual Report of the Surgeon General of the Public Health Service of the United States for the Fiscal Year 1935; Washington, DC: U.S. Public Health Service, pp. 101-105.	Lists publications distributed by the agency during the year, including reprint No. 1665, a study of asbestos workers by Lanza et al. (below).

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 244 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1935	T.N. Bartlett, Workmen's compensation legislation: Occupational diseases, Best's Insurance News (Casualty Edition), December 10, pp. 462-466.	Silicosis and asbestosis "are not new diseases, but they have been alarmingly on the increase, because of exposure to and the use of modern machinery and processes in the everyday course of work...Silicosis and asbestosis are by far the most dangerous [occupational diseases] of all."
Asbestos bodies	1935	P.J. Beger, Neue Beobachtungen an Asbestosiskoerperchen, Archiv fuer Gewerbepathologie und Gewebehygiene 6:349-392, December 27.	A technical study of the chemistry of asbestos bodies, particularly their coating.
Asbestosis; threshold levels; insurance industry	1935	W.I. Clark and P. Drinker, Industrial Medicine; New York: National Medical Book Company [#2990 and #2991].	Includes a review of the knowledge to date on asbestosis. Reports that McConnell of Metropolitan Life Insurance "prefers to see the dust count below 5 million and welcomes still lower figures. Merewether gives figures on asbestos dust concentrations but no indication of permissable dustiness."
Asbestos bodies	1935	W.E. Cooke, Modern views on silicosis, Journal of Hygiene 35:207-218, May [#3196].	Includes a discussion of asbestos bodies and whether the mineral's solubility, which results in free silica, is the true cause of the fibrosis produced by asbestos.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 245 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1935	M. Davidson, Industrial respiratory diseases: The pneumonokonioses, A Practical Manual of Diseases of the Chest; London: Oxford University Press, pp. 252-268 [#2992].	Reviews the pathology, morbid anatomy and clinical and radiological features in asbestosis.
Asbestosis	1935	G.G. Davis, E.M. Salmonsen and J.L. Earlywine, The Pneumonokonioses (Silicosis): Literature and Laws of 1934; Chicago, IL: Chicago Medical Press [#2993].	Contains abstracts of the medical/scientific literature published during 1934. Subject index lists 26 references under asbestosis.
Asbestosis	1935	A death from asbestosis, Lancet 1:86, March 30 [#2994].	Discussion in British House of Commons on March 20, 1935, that disease in asbestos factory worker had been contracted before British asbestos industry regulations came into effect.
United States; dust control	1935	Discussion of Industrial Accidents and Diseases, 1934 Convention of the International Association of Industrial Accident Boards and Commissions; Washington, DC: U.S. Bureau of Labor Standards Bulletin No. 2.	Some discussion of exhaust equipment in the asbestos industry.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 246 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Hazardous processes	1935	The effect of dust on the human body, Aerologist 11:8-10 and 32, January.	Classifies dusty trades alphabetically by job title and includes asbestos workers and spinners. Insulators are not listed.
Asbestosis	1935	D.S. Egbert, Pulmonary asbestosis: Report of a case with necropsy findings, American Review of Tuberculosis 31:25-34, January [#2995].	Autopsy of asbestos factory worker whose case was first published by Soper in 1930.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 247 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

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CATEGORY	DATE	ARTICLE	COMMENTS
United States: Pennsylvania; dust counts; asbestosis	1935	W.B. Fulton, A.D. Dooley, J.L. Matthews and R.L. Houtz, Asbestosis: Part II. The Nature and Amount of Dust Encountered in Asbestos Fabricating Plants; Part III. The Effects of Exposure to Dust Encountered in Asbestos Fabricating Plants on the Health of a Group of Workers; Pennsylvania Department of Labor and Industry Special Bulletin No. 42, September 20, pp. 3-35 [#2997]. Publication noted in Safety Engineering 70(6):252, December, 1935 and in Heating & Ventilating 33:12, 1936.	Part II consists of a dust survey of four asbestos plants and lists dust concentrations found by industrial process. Part III reports the results of physical examinations of 64 asbestos workers, of whom 14 were found to have asbestosis.
Asbestosis	1935	L.U. Gardner, Pneumokoniosis, International Clinics 2:15-53 [#2999].	Diagnosis of asbestosis depends upon an adequate history of exposure to asbestos dust of at least three or more, usually seven or eight years' duration. Such exposures occur in spinners and weavers of asbestos or in the manufacture of brake linings, electrical insulation and certain other products.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 248 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Lung cancer; asbestosis	1935	S.R. Gloyne, Two cases of squamous carcinoma of the lung occurring in asbestosis, Tubercle 17:5-10, October [#3000].	Lung cancer in two British asbestos factory workers with asbestosis. The lesions were noted at autopsy, not during life.
Asbestosis	1935	R.N. Gray, Asbestosis, Compensation and Liability Medicine; New York: Matthew Bender & Company, pp. 27-38 [#3001].	Basically similar to comments on asbestosis in Gray's 1934 textbook for attorneys.
Asbestosis	1935	D. Harrington, Fighting dust hazards and promoting safety, Mining and Metals 16:146, March.	Reports on a dust symposium, part of the 144th Annual Meeting, American Institute of Mining Engineers, New York City, including Dr. Lanza's "interesting observations on asbestosis."
United States; asbestosis	1935	D. Harrington and S.J. Davenport, Review of Literature on Effects of Breathing Dusts, with Special Reference to Silicosis, Part I; Washington, DC: U.S. Bureau of Mines Information Circular No. 6835, March [#3003]; and Part III-A, Circular No. 6857, October [#3006].	Although the emphasis is on silicosis, largely in mining and allied industries, there are numerous references to asbestos and asbestosis throughout the text.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 249 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Fiber type	1935	C.S. Hurlbut, Jr., and C. Williams, The mineralogy of asbestos dust, Journal of Industrial Hygiene 17:289-293, November [#3009].	Describes the petrographic analysis of dust from six asbestos processing plants. Questions whether mineral impurities cause lung damage.
Product use; roofing workers	1935	Industrial hygiene problems in a typical industrial area, Monthly Labor Review 41(1):79-82, July.	Reports on industrial hygiene surveys of over 600 plants undertaken by U.S. Public Health Service in 1934. "Roofers were especially exposed to asbestos dust."
Compensation; asbestosis	1935	F.R. Jones, Problems in compensation for occupational diseases, Industrial Medicine 4:222-224, April.	Recommends provision requiring three to five years' exposure to silica or asbestos dust as a condition of compensation.
Asbestos bodies	1935	G.F. Koppenhoefer, Neue Untersuchungen ueber die Natur der Asbestosis-koerperchen, Archiv fuer Gewerbepathologie und Gewerbehygiene 6:38-62, April 17.	Reviews research on asbestos bodies by 24 English, American and German investigators.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 250 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1935	A.J. Lanza, W.J. McConnell and J.W. Fehnel, Effects of the inhalation of asbestos dust on the lungs of asbestos workers, Public Health Reports 50(1):1-12, January [#3012]. Publication of study also discussed in Journal of the American Medical Association 104:478-479, February 9 [#2989] and Safety Engineering 69:98-99, February.	Report of The Metropolitan Life Insurance Company study, begun in 1929 at the request of the U.S. asbestos industry. Of 126 asbestos factory workers with more than three years' exposure examined, 67 were diagnosed as having asbestosis. Recommends dust control and medical surveillance.
Compensation; asbestosis	1935	Lessons from England regarding dusty trades, Safety Engineering 69:189, April.	Discusses England's asbestosis compensation scheme which requires pre-employment examinations.
Lung cancer; asbestosis	1935	K.M. Lynch and W.A. Smith, Pulmonary asbestosis III: Carcinoma of lung in asbesto-silicosis, American Journal of Cancer 24:56-64, May [#3013].	A case report of pulmonary asbestosis with associated carcinoma of the lung in an asbestos textile worker. First report in medical literature to question relationship of lung cancer to asbestosis, although a few earlier reports noted existence of cancer in cases of asbestosis.
Asbestosis	1935	L. Martz, Asbestosis und Tuberkulose der Lungen, Zeitschrift fuer Tuberkulose 72:11-15.	Case of pulmonary asbestosis complicated by pulmonary tuberculosis in a German asbestos factory worker.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 251 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1935	Meeting of International Association of Industrial Accident Boards and Commissions, 1935, Monthly Labor Review 41(5):1264-1266, November.	Second day of meeting "was given over entirely" to discussion of asbestosis and silicosis, led by L.U. Gardner, Saranac Laboratory, and R.R. Sayers, U.S. Public Health Service.
England; asbestosis; compensation	1935	Memorandum on the Industrial Diseases of Silicosis and Asbestosis, H.M. Stationery Office, London, February [#3018].	"During the three years 1932-4 the Medical Board certified 60 cases of disablement and 5 deaths among workers in the asbestos industry" in England.
Litigation; asbestosis	1935	Occupational disease ruling favors companies, Insurance Field 64:10, January 10. Similar information published in National Underwriter 39:23, January 3 and in Insurance Index, February, pp. 14-15.	Discusses Federal Court ruling in Chicago against Johns-Manville in connection with nine asbestosis cases.
Asbestosis	1935	T. Oliver , L'asbestose pulmonaire, Bulletins et Memoires de la Societe Medicale des Hopitaux de Paris 51:1153-1163, July.	Similar to Oliver's 1930 article, with some current information added as to number of deaths from asbestosis reported in Great Britain.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 252 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1935	R.C. Page, A study of the sputum in pulmonary asbestosis, American Journal of Medical Science 189:44-45, January [#3014].	Studied 38 cases of disease in asbestos factory workers, 11 of whom died. Several of the cases were in office workers in the factory.
Asbestosis	1935	C. Porter, Letter from Great Britain, American Journal of Public Health 25:213-215.	Comments on health in British industry in 1933: "In the case of asbestosis it would seem that since the introduction of special regulations applicable to the asbestos industry, the problem has been solved."
Asbestosis; respirator use	1935	Pulmonary asbestosis, Monthly Labor Review 41(6):1524-1527, December [#3016].	Doubts "that complete protection can be afforded by the devices in use at the present time", but asbestos workers are "entitled to the highest type of protection which the engineers familiar with the hazard can provide."
Asbestosis	1935	H.D. Sayer, Occupational diseases -- Real and supposed, Safety Engineering 69:179-182, April [#3019].	Contains a brief discussion of dust diseases, including asbestosis. Industry "recognizes an obligation to compensate for silicosis and asbestosis."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 253 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1935	Second Symposium on Silicosis, An unofficial transcript of the Second Silicosis Symposium held in connection with the Trudeau School of Tuberculosis at Saranac Lake, New York, June 3-7, 1935, (B.E. Kuechle, editor); Wausau, WI: Employers Mutuals [#3023 and #3024].	There are a few references to asbestosis throughout the proceedings. These refer primarily to British experience, since L.U. Gardner, R.R. Sayers (U.S. Public Health Service), and A.R. Riddell all state they have had limited experience with clinical cases of asbestosis.
Asbestosis	1935	A short history of the industrial diseases of silicosis and asbestosis, Labour Gazette 35:1126, December.	A Canadian publication noting the increase in cases as use of asbestos has increased.
Fiber release; product use	1935	R.C. Stratton, Origin and sources of toxic dusts from various industries, Safety Engineering 69(1):39-42, January. Similar information published in Mechanical Engineering 57:95-98 [#3020].	"Crushing and grinding of asbestos products generates dust."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 254 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1935	H.C. Sweany, Pneumonoconiosis problem from the standpoint of pathology, Industrial Medicine 4:58-60, February [#3021].	The effect of asbestos and other dusts must each be carefully determined. "Until it is done, the field will continue to be racket ridden."
Asbestosis	1935	T.P. White, Pulmonary asbestosis, Transactions of the Medical Society of the State of North Carolina, May 6-8, 1935, pp. 259-262 [#3031].	Discussion of asbestosis based on the author's clinical experience.
United States; respirator use	1935	W.P. Yant, List of Devices for Respiratory Protection Approved by the U.S. Bureau of Mines; Washington, DC: U.S. Bureau of Mines Information Circular No. 6845, June.	Appears to be first list from U.S. Bureau of Mines of approved respirators for asbestos dust.
Asbestosis; compensation	1935	A.H. Zimmerman, The silicosis hysteria, Aerologist 11:8-12 and 30, April [#3030].	Notes that "South Africa, England and a few Canadian provinces have included silicosis and asbestosis as compensable diseases and have set up qualified medical boards for hearing claims." States that some dusts are more harmful than others, but "all dusts which are breathed into the respiratory passages in large quantities over appreciable time periods are liable to be harmful to health."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 255 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1936	W. Aewens, Asbestose, Zeitschrift fuer Gewerbehygiene und Unfallverhuetung 43:1-6.	Reports on the lung examination of 35 German asbestos factory workers, according to abstract by L. Teleky, Journal of Industrial Hygiene 18(6):86, June 1936.
England; asbestosis	1936	Annual Report of the Chief Inspector of Factories and Workshops for the Year 1935; London: H.M. Stationery Office, pp. 55-56 [#2941].	Total cases of deaths on record in England are 52 from asbestosis and 30 from asbestosis with tuberculosis.
United States; asbestosis	1936	Annual Report of the Surgeon General of the Public Health Service of the United States for the Fiscal Year 1936; Washington, DC: U.S. Public Health Service, pp. 4-5 and 34-35.	First mention of U.S. Public Health Service study by W.C. Dreessen of 517 asbestos textile workers, of whom 46 (8.9 percent) were diagnosed as having asbestosis.
Asbestosis	1936	O. Auerbach, The pathology of pneumoconiosis, Quarterly Bulletin of Sea View Hospital 2(1): 3-27, October [#2942].	"We have never observed a case of asbestosis post mortem in Sea View Hospital." Lanza "has found that in the United States the course of asbestosis is a much milder one than that reported by the English...it is possible that English factories may be more dusty than those in the United States."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 256 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1936	H.M. Behneman, Silicosis pneumoconiosis: Its clinical and industrial aspects, Northwest Medicine 35:180-184, May [#2943].	Primarily about silicosis. Notes that "a good many workers consider asbestos particle inhalation as a form of silicosis. Strictly speaking, however, this naturally should be called asbestosis."
Asbestosis	1936	A. Boehme, Ueber Asbestose, Deutsche Medizinische Wochenschrift 62:928-930, June 5.	Investigation of workers in a German asbestos factory, which showed that four of 14 workers had manifestations of asbestosis after one year.
Asbestosis	1936	J.C. Bridge, The prevention of disease in industry, Practitioner 137:260-269, September [#2944].	A general discussion of occupational diseases, including silicosis and asbestosis, and the preventive measures and medical examinations required by British regulations.
Asbestosis	1936	W.I. Clark, Clinical aspects, diagnosis and treatment of pneumoconiosis, Journal of Industrial Hygiene 18:537-549, October [#2945].	Includes a discussion of asbestosis, its pathology, symptoms, and appearance during physical examination and in x-rays.
Asbestosis; lung cancer	1936	W.E. Cooke, Industrial diseases of the lungs, with special reference to silicosis, Practitioner 137:314-323, September [#2946].	Primarily a discussion of silicosis. Carcinoma of the lung may be a complication of silicosis or asbestosis.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 257 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis; compensation	1936	M. Davidson, Diseases of the lungs and pleurae, Practitioner 137:467-476, October [#2947].	Increased importance of silicosis and asbestosis is "chiefly owing to the vast problem of compensation."
United States; asbestosis	1936	Discussion of Industrial Accidents and Diseases, 1935 Convention of the International Association of Industrial Accident Boards and Commissions, Asheville, North Carolina; Washington, DC: U.S. Division of Labor Standards Bulletin No. 4, pp. 63-95.	Afternoon discussion of silicosis and asbestosis. Participants included W.J. McConnell, L.U. Gardner, R.R. Sayers (U.S. Public Health Service), and A.J. Lanza, among others.
Asbestosis; compensation	1936	Discussion of workmen's compensation by American Bar Association, Monthly Labor Review 43:893-894, October.	Section on insurance law included discussion of silicosis and asbestosis.
Asbestosis; dust control	1936	J. Donnelly, Pulmonary asbestosis: Incidence and prognosis, Journal of Industrial Hygiene 18(4):222-228, April [#2948].	Describes x-ray films of 151 asbestos factory workers. Asbestosis found in 34.4 percent. Dust control only 90 percent effective.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 258 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1936	P. Drinker, The causation of pneumoconiosis, Journal of Industrial Hygiene 18(8):524-536, October [#2949].	Includes a brief discussion of asbestosis.
Asbestosis	1936	P. Drinker and T. Hatch, Industrial Dust: Hygiene Significance, Measurement and Control; New York: McGraw-Hill Book Company, Inc., pp. 20-49 and 72-79 [#2950].	Asbestosis is discussed in a chapter on the effects of dust and fumes upon man, and in a chapter on physical and chemical factors in pneumoconiosis.
United States: North Carolina; dust control; hazardous processes	1936	H.F. Easom and M.F. Trice, A Report of a Survey of Certain Industries in North Carolina Involving A Siliceous Dust Hazard; Raleigh, NC: Division of Industrial Hygiene, North Carolina State Board of Health and North Carolina Industrial Commission [#2951].	Less than one-fourth of asbestos textile workers are given the benefit of dust-controlling apparatus. "In the asbestos textile plants all workers except the maintenance and repair men, the machinists, the shipping crew and the office personnel are exposed to occupational disease hazards."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 259 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis; lung cancer	1936	D.S. Egbert and A.J. Geiger, Pulmonary asbestosis and carcinoma, American Review of Tuberculosis 34:143-150, July [#2952].	A case report of an asbestos textile worker with asbestosis and lung cancer.
Asbestosis; animal studies	1936	L.U. Gardner, The diagnosis of silicosis, with special reference to roentgenological manifestations, Annals of Internal Medicine 10(2) 166-173, August [#2954]. Similar information published by Gardner in Safety Engineering 71(3):139-140, March and 71(4):180-182, April [#2955]; New York State Journal of Medicine 36(19):1-5, October 1 [#2956]; and Diseases of the Respiratory Tract, Philadelphia: W.B. Saunders, pp. 249-263, 1936 [#2957].	Discusses effects observed in asbestos experiments in animals. Also discusses asbestosis in human beings, but says "the pathology of asbestosis in the human subject needs further investigation."
X-ray abnormalities	1936	L.H. Garland, The x-ray aspects of pneumoconiosis, Radiology 27:21-32, July 1936 [#2958].	Includes a brief description of x-ray appearance in asbestosis.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 260 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1936	W. Giese, Ueber die pathologisch-anatomischen Veranderungen bei den Staubkranheiten der Lunge, Deutsche Medizinische Wochenschrift 62:993, June 12.	A brief discussion of asbestosis and the physico-chemical nature of tissue response to asbestos dust.
Asbestosis; lung cancer	1936	S.R. Gloyne, Case of oat cell carcinoma of the lung occurring in asbestosis, Tubercle 18:100-101, December [#2960].	A report of case of asbestosis in England accompanied by oat cell carcinoma of lung. Patient began work as "a packer in an asbestos works" and was promoted 18 months later to foreman in the stores department.
United States; asbestosis; compensation	1936	D. Harrington and S.J. Davenport, Review of Literature on Effects of Breathing Dusts with Special Reference to Silicosis, Part III-B; Washington, DC: U.S. Bureau of Mines Information Circular No. 6892, August [#2961].	The economic and legal aspects of dust disease in industry. Includes sections on the British asbestosis and silicosis compensation scheme and North Carolina's occupational disease law.
Asbestosis	1936	D. Hunter, Occupational Diseases; London: H.K. Lewis & Co. [#2973].	A compilation of lectures; third lecture discusses silicosis and asbestosis. Of 37 asbestos workers with asbestosis, one case had occurred in a storekeeper in an asbestos plant and another had been a machinist.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 261 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis; product use; welding	1936	C.J. Jacobson, A case of acute asbestosis, Hospitalstidende 79:864, August 18 [#2976].	Report of asbestosis in a 25-year-old machine worker, who used asbestos-covered electrodes in welding.
Compensation; insurance industry	1936	F.R. Jones, Occupational disease compensation: Data indicative of cost, for occupational diseases in general, and of silicosis, asbestosis and dust diseases in particular, Industrial Medicine 5(4):179-183, April.	Rates for workmen's compensation insurance for asbestos goods manufacturing are given.
Lung cancer	1936	N.M. Kennaway and E.L. Kennaway, A study of the incidence of cancer of the lung and larynx, Journal of Hygiene 36:236-267 [#2977].	Review of death certificates of all cases of cancer of the lung and larynx in England and Wales for 1921-1932. "No cases were found in asbestos workers in this study," but the lung cancer cases reported by Lynch and Smith and by Gloyne in 1935 are noted.
Asbestosis; insurance industry; compensation	1936	A.J. Lanza, Asbestosis, Journal of the American Medical Association 106(5):368-369, February 1 [#2962].	First compensation claim in the United States for asbestos-related disease was filed in February 1927 in Massachusetts. "A search of all the death records on file in the Metropolitan Life Insurance Company revealed that asbestosis had been given as a cause or contributing cause of death in only nineteen cases. The first case noted was in 1924, there were two in 1927, one occurred in 1931, and the rest have occurred since 1933."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 262 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
United States; asbestosis	1936	A.J. Lanza, Discussion memorandum, Discussion of Industrial Accidents and Diseases, 1935 Convention of International Association of Industrial Accident Boards and Commissions; Washington, DC: U.S. Division of Labor Standards Bulletin No. 4, pp. 94-95.	Advises letting workers with asbestosis or silicosis and without marked disability continue at work if hazard is controlled.
Product use	1936	E. Mayer and W. Grethmann, Silicosis: Some differential diagnosis problems, American Review of Tuberculosis 33:313-321, March [#2965].	Describes disease in "a cutter and sizer of asbestos-containing paper box boards," but authors do not know if it is silicosis or asbestosis.
Asbestosis	1936	S.B. McPheeters, A survey of a group of employees exposed to asbestos dust, Journal of Industrial Hygiene 18(4):224-239, April [#2967].	Survey of 210 asbestos factory workers. No data were available on how many employees during the 15 to 20 years covered in the study had died or quit and how many of these had asbestosis.

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EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1936	E.L. Middleton, Industrial pulmonary disease due to the inhalation of dust, Lancet 2:59-64, July 11 [#2968].	Although the history of asbestosis as a disease is short, an extensive literature has been produced on the subject.
Animal studies	1936	J.W. Miller and R.R. Sayers, The physiological response of peritoneal tissue to certain industrial and pure mineral dusts, Public Health Reports 51(49):1677-1689, December 4 [#2969].	A U.S. Public Health Service study in which chrysotile asbestos was injected intraperitoneally in guinea pigs. An inert reaction was produced which should be considered "potentially harmful."
Asbestosis; dust counts	1936	P.H. Pierson, Silicosis, California & Western Medicine 45:477-482, December [#2979].	Dust counts in an asbestos factory ranged from 6 to 24 mppcf. Of six employees, one had definite asbestosis and one was questionable. Recommended enclosure of the saw which caused the dust.
Animal studies	1936	Report of the Director and Financial Report for the Year Ending September 30, 1936, The Saranac Laboratory for the Study of Tuberculosis of the Edward L. Trudeau Foundation, Saranac Lake, New York, pp. 6-16.	Injection of asbestos minerals in animals presents technical difficulties which will have to be overcome.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 264 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Fiber type	1936	C.O. Sappington, Banish the dust hazard, Mill and Factory 18(3):69-71 and 150-152, March [#2981].	Varieties of asbestos may differ slightly in their physical properties and chemical composition, but all kinds are believed to represent health hazards.
Asbestosis; disease progression	1936	J.R. Shull, Asbestosis: A roentgenologic review of 71 cases, Radiology 27(3):279-292, September [#2984].	Examination of 71 of 100 workers who had been dismissed from local asbestos plants. Asbestosis does not appear to be a progressive disease when the patient is removed from dust exposure, at least in slightly and moderately advanced cases.
Asbestosis	1936	H.C. Sweaney, J.D. Porsche and J.R. Douglass, Chemical and pathologic study of pneumoconiosis, with special emphasis on silicosis and silicotuberculosis, Archives of Pathology 22(5):593-633 [#2986].	Cases of "pneumoconiosis without silicotic fibrosis" studied by authors include a machine worker "in a room in which asbestos was handled and in which the air was reputed to contain much dust."
Fibrosis	1936	C.H. Vrooman, Silicosis and its incidence in British Columbia, Canadian Medical Association Journal 35:293-297, September [#2987].	Also mentions pulmonary fibrosis produced by asbestos.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 265 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
England; asbestosis	1937	Annual Report of the Chief Inspector of Factories and Workshops for the Year 1936; London: H.M. Stationery Office, pp. 54-55 [#2917]. Data also published in Public Health Reports 52(38):1303-1307, September 17 [#2919], and Monthly Labor Review 45:895-897, October.	Reports seven deaths from asbestosis and four from asbestosis and tuberculosis during the year. Average duration of employment in cases of asbestosis was about 11 years.
United States; threshold level	1937	Annual Report of the Surgeon General of the Public Health Service of the United States for the Fiscal Year 1937; Washington, DC: U.S. Public Health Service, pp. 3-4, 43-46 and 95-102.	U.S. Public Health Service study of 543 asbestos textile workers showed "the maximal concentration of asbestos dust to which workers may be exposed without contracting asbestosis is in the neighborhood of 5 million particles per cubic foot."
Asbestosis; compensation	1937	M. Bauer, [The third ordinance increasing compensation for occupational diseases in Germany], Reichsarbeittsblatt 36(4):1-47.	German regulations now include asbestosis in the list of compensable occupational diseases, according to abstract from The Pneumonokonioses (Silicosis): Literature and Laws, Book III, Chicago Medical Press, 1937, pp. 1030-1032.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 266 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
United States; shipbuilding	1937	J.J. Bloomfield and M.F. Peyton, Evaluation of the Industrial Hygiene Problems of a State; Washington, DC: U.S. Public Health Service, Public Health Bulletin No. 236, June.	A survey of potential hazardous exposures in Maryland industries, undertaken by U.S. Public Health Service, included asbestos dust exposure in ship and boat building.
Asbestosis	1937	G.G. Davis, E.M. Salmonsen and J.L. Earlywine, The Pneumonokonioses (Silicosis): Literature and Laws, Book III; Chicago, IL: Chicago Medical Press [#2928].	Abstracts articles on the pneumoconioses which were published during 1935-1936 in the United States and other countries, including over 60 articles relating to the effects of asbestos dust exposure.
Asbestosis	1937	W. DiBiasi, Zur pathologischen Anatomie der Lungenasbestose, Archiv fuer Gewerbepathologie und Gewerbehygiene 8:139-155.	Describes macroscopic and microscopic findings in a fatal case of asbestosis. Pathology is due to mechanical action of fibers.
Fiber type	1937	L.U. Gardner, Silicosis and related conditions, Journal of Industrial Hygiene 19(3):111-125, March [#2920].	Physical structure may be more important than chemical composition of asbestos. A comparative study of eight different types of asbestos is in progress and may throw more light on this subject.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 267 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
United States; asbestosis	1937	D. Harrington and S.J. Davenport, Review of Literature on Effects of Breathing Dusts with Special Reference to Silicosis; Washington, DC: U.S. Bureau of Mines Bulletin 400 [#2921].	A review of the medical/scientific literature on dust diseases, with numerous references to asbestos hazards.
Asbestosis	1937	J.B. Hawes, Dangerous dusts, New England Journal of Medicine 216:162-165, January 28 [#2922].	A general discussion of silicosis and asbestosis. "There is not the slightest doubt, however, in my mind at least that asbestos dust is the most dangerous of all dusts."
Asbestosis	1937	G. Lehmann, Die Bedeutung des Staubbindungsvermoegens der Nase fuer die Entstehung der Asbestose, Arbeitsphysiologie 9:572-578, April 23.	A study of 73 workers in a German asbestos factory concluded that the danger of pneumoconiosis is three times as great in asbestos workers as in quarry workers exposed to silica.
Asbestosis	1937	T.M. Ling, Recent Advances in Industrial Hygiene and Medicine; Philadelphia, PA: P. Blakiston's Son & Co., Inc., pp. 148-150 [#2923].	Chapter on dust and its effects includes asbestos dust, describing asbestos bodies, x-ray appearance and other symptoms.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 268 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos bodies	1937	K.M. Lynch, Pulmonary asbestosis, IV. The asbestos body and similar objects in the lung, Journal of the American Medical Association 109(24):1974-1978, December 11 [#2924].	The presence of asbestos bodies indicates exposure to asbestos dust only.
Asbestosis; compensation	1937	Objectives of workmen's compensation for occupational diseases, American Journal of Public Health 27(3 Supplement):72-81, March.	Committee on Standard Practices in the Problem of Compensation of Occupational Diseases, American Public Health Association, recommends compensation for asbestosis from any industrial process with more than two years' exposure.
Asbestosis; insurance industry; medical surveillance	1937	Occupational disease hazards, Engineering Manual; The Employers' Group, June 1, pp. 1-2, 9-12, 32-33 and 39.	"A potential asbestosis hazard is to be looked for wherever asbestos dust is created." Physical examination of new employees and periodic examination of older employees should be discussed with Claim Department.
Dust control; threshold level	1937	R.T. Page and J.J. Bloomfield, A study of dust control methods in an asbestos fabricating plant, Public Health Reports 52(48):1713-1727, November 26 [#2925].	U.S. Public Health Service engineering study of dust control effectiveness. There are not enough data to determine a threshold level for asbestos dust.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 269 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Dust control; respirator use	1937	F. Prokat, [The prevention of asbestosis in industry], Staub 5:133-162, April.	Danger from asbestos dust can be eliminated by well-covered machinery provided with exhaust ventilation, according to abstract in Bulletin of Hygiene 13(4):272-273, April 1938. "In works where masks have been provided the workmen seldom wear them."
Animal studies; fiber type	1937	Report of the Director and Financial Report for the Year Ending September 30, 1937, The Saranac Laboratory for the Study of Tuberculosis of the Edward L. Trudeau Foundation, Saranac Lake, New York, pp. 7-21.	Injury from asbestos dust may be mechanical rather than chemical in nature, and fiber length may be the important factor.
Threshold level	1937	A.E. Russell, Silicosis and other dust diseases, Journal Lancet 57:265-274 [#3184].	Threshold for asbestos is listed as 15 to 20 mppcf.
Asbestosis	1937	Silicosis and Allied Disorders: History and Industrial Importance; Pittsburgh, PA: Air Hygiene Foundation Medical Series Bulletin No. 1, April 15 [#2926].	Emphasis on silicosis, but history of asbestos research in England and the United States is discussed.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 270 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Lung cancer	1937	E.J. Simons, Primary Carcinoma of the Lung; Chicago, IL: The Year Book Publishers [#3206].	Etiologic factors in development of lung cancer, such as dust inhalation, industrial and occupational hazards, and pneumoconioses and other chronic lung diseases are discussed.
Asbestos bodies	1937	N. Sundius and A. Bygden, Der Staubinhalt einer Asbestosislunge und die Beschaffenheit der sogenannten Asbestosiskoerperchen, Archiv fuer Gewerbepathologie und Gewerbehygiene 8:26-70.	Describes chemical experiments on the nature of asbestos bodies.
Lung cancer	1937	L. Teleky, Occupational cancer of the lung, Journal of Industrial Hygiene 19(2):73-85, February [#3200].	Mentions reported cases of asbestosis and cancer. "These isolated observations among many thousands of pneumoconioses do not entitle anyone to suppose that pneumoconiosis favors predisposition to cancer."
X-ray abnormalities; animal studies	1937	Third Symposium on Silicosis, An official transcript of the Third Silicosis Symposium held in connection with the Trudeau School of Tuberculosis at Saranac Lake, New York, June 21 to 25, 1937 (B.E. Keuchle, editor); Wausau, WI: Employers Mutual Liability Insurance Co. [#2934, #2935 and #2929].	Experimental studies on reaction of animal lungs to inhaled asbestos fibers discussed, as well as variations in x-ray appearance of asbestosis in humans.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 271 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1937	Windel, [Asbestosis and its prevention], Arbeitsschutz 1:9-16.	At request of North German Textile Association, 11 asbestos factories were surveyed; 22 cases of asbestosis and 13 deaths were found among 385 German asbestos workers.
Dust control	1938	K. Akkermann, [Technical health protection in asbestos working plants], Gesundheits-Ing. 61:710-714.	Describes dust control equipment in asbestos plants.
England; asbestosis	1938	Annual Report of the Chief Inspector of Factories and Workshops for the Year 1937; London: H.M. Stationery Office, pp. 62-64 [#3272]. Data also published in Monthly Labor Review 47:1027-1029, November, 1938.	Nine deaths from asbestosis and four from asbestosis with tuberculosis were reported during the year in England.
Asbestosis	1938	L.B. Chenoweth and W. Machle, Industrial Hygiene, A Handbook of Hygiene and Toxicology for Engineers and Plant Managers; New York: F.S. Crofts & Co.	Contains a brief description of asbestosis in chapter on dust diseases.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 272 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
United States; asbestosis; threshold level	1938	W.C. Dreessen, J.M. DallaValle, T.I. Edwards, J.W. Miller and R.R. Sayers, A Study of Asbestosis in the Asbestos Textile Industry; Washington, DC: U.S. Public Health Service Public Health Bulletin No. 241, August [#2905]. Summarized by Sayers and Dreessen in American Journal of Public Health 29:205-214, March 1939 [#2904].	A U.S. Public Health Service study of engineering controls and health hazards in four asbestos textile plants in North Carolina. Found that 16.3 percent of 69 former workers and 378 employed workers at three plants had asbestosis. Only three cases of asbestosis, diagnosed as doubtful, were found to have exposures below 5 mppcf.
Asbestosis; litigation	1938	H.F. Easom and M. F. Trice, Development of an industrial hygiene program in a state health department, American Journal of Public Health 28:610-615, May [#3190].	North Carolina Division of Industrial Hygiene started as a result of a 1934 suit by an asbestos worker.
Medical surveillance	1938	T.R. Elliott, Fibres of gold, Canadian Geographical Journal 16(3):109-126, March.	Describes history of Manville's Jeffrey Mine at Asbestos, Quebec. Employees are required to have at least yearly x-rays.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 273 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Animal studies	1938	L.U. Gardner, Etiology of pneumoconiosis, Journal of the American Medical Association 111(21):1925-1936, November 19 [#2906].	Describes animal experiments on mechanical action of asbestos.
Asbestosis; cancer	1938	S.R. Gloyne and E.R.A. Merewether, Asbestos, Supplement to Occupation and Health; Geneva: International Labour Organization, January [#2909].	The number of cases of asbestosis complicated by cancer "is small and it is not yet established that there is any aetiological connection between the two diseases...but there is sufficient evidence to warrant careful observation in the future."
Asbestosis; lung cancer	1938	F. Hornig, Klinische Betrachtungen zur Frage des Berufskrebses der Asbestarbeiter, Zeitschrift fuer Krebsforschung 47:281-287.	Causal relationship between presence of asbestosis and development of lung cancer was accepted in German asbestos factory worker.
Asbestosis; lung cancer	1938	Koelsch, Lungenkrebs und beruf, Acta Unio Internationalis contra Cancrum 3:243-251.	Twelve cases of lung cancer and asbestosis are in the literature to date.
Asbestosis	1938	A.J. Lanza, Silicosis and Asbestosis; New York: Oxford University Press [#2914, #2912 and #2908].	Chapters on history, diagnosis, pathology, prevention and compensation of asbestosis.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 274 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
United States: Pennsylvania; dust control	1938	B.W. Luttenberger, Safe Practice in Asbestos Manufacture; Commonwealth of Pennsylvania Department of Labor and Industry (Safe Practice Bulletin No. 20), October.	Describes dust control systems at the Manheim, Pennsylvania plant of U.S. Asbestos Company.
Asbestosis	1938	P.B. Matz, Pathology of the lungs and other organs in silicosis, American Journal of Clinical Pathology 8:345-365 [#3188]. Similar information published by Matz in American Journal of Medical Sciences 196:548-559 [#3187].	Includes case of asbestosis in asbestos textile worker who worked in carding room for eight years after discharge from U.S. Navy.
X-ray abnormalities; insulator	1938	E.R.A. Merewether, Dusts and the lungs, with particular reference to silicosis and asbestosis, Medical Press and Circular Supplement 3:11-17, July 20 [#2911].	Lung changes in mixer of boiler insulating materials are intermediate between those of silicosis and asbestosis.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 275 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis; lung cancer	1938	M. Nordmann, Der Berufskrebs der Asbestarbeiter, Zeitschrift fuer Krebsforschung 47:288-302.	Report on two cases of lung cancer in asbestos workers personally autopsied and four other cases reported in the literature. Finds a causal relationship between asbestosis and lung cancer.
Southern Rhodesia; asbestosis	1938	Report of the Commission Appointed to Enquire into the Possible Prevalence and Origin of Cases of Silicosis and Other Industrial Pneumoconioses in the Industries of the Colony of Southern Rhodesia, and of Pulmonary Tuberculosis in Such Industries; Salisbury, Southern Rhodesia: Government Printing Office, pp. 81-94 [#3213].	Examination of employees at two asbestos mines concludes "that no significant number of cases of asbestosis is likely to be produced under the occupational conditions which have been developed under the present management."
Animal studies	1938	Report of the Director and Financial Report for the Year Ending September 30, 1938, The Saranac Laboratory for the Study of Tuberculosis of the Edward L. Trudeau Foundation, Saranac Lake, New York, pp. 7-17.	Animals inhaling high concentrations of asbestos dust for approximately two years show practically no fibrosis.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 276 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1938	E. Saupe, Roentgenatlas der Asbestose der Lungen; Leipzig: Georg Thieme.	A monograph on asbestosis, and data on clinical results in 192 asbestos workers, according to review in Journal of Industrial Hygiene 21(3):103-104, March 1939.
Asbestosis; lung cancer	1938	Silicosis and pulmonary carcinoma, British Medical Journal 2:411-412, August 20 [#3198].	An editorial reviewing the literature on silicosis and cancer notes the recorded instances of asbestosis and lung cancer "are yet too few to be significant."
United States: New York; asbestosis	1938	A.R. Smith, Silicosis and Its Prevention; New York State Department of Labor Division of Industrial Hygiene (Special Bulletin No. 198), pp. 9 and 34-35 [#3202].	Asbestosis is not a serious problem in the United States owing to the relatively small numbers employed in work involving exposure to asbestos and to relatively good plant hygiene.
Asbestosis	1938	J.V. Sparks, Asbestosis, British Journal of Radiology 11(126):371-377, June [#2916].	General review of asbestosis.
Asbestos bodies	1938	N. Sundius and A. Bygden, Isolation of the mineral dust in lungs and sputum, Journal of Industrial Hygiene 20(5):351-359, May [#3203].	Laboratory techniques for isolating dust in pneumoconiotic lungs, particularly asbestos bodies.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 277 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Lung cancer	1938	L. Teleky, Occupational lung cancer, Acta Unio Internationalis contra Cancrum 3(1):253-275.	Asbestos dust seems to influence the beginning of cancer. Supplementary research is needed in this direction.
Asbestosis; lung cancer	1938	L. Teleky, Pneumoconiosis (pulmonary disease due to dust), Supplement to Occupation and Health; Geneva: International Labour Office [#3204].	Reviews case reports of asbestosis and pulmonary cancer. Opinion of American authorities is that pneumoconiosis does not predispose to cancer.
Railroad workers; paper and pulp workers	1938	N.D. Tillson, R.T. Homewood and H.J. Worsham, Evaluation of the Industrial Hygiene Problems of Virginia; Richmond, VA: Virginia State Department of Health Bureau of Industrial Hygiene.	Survey of Virginia industries estimates that 350 workers in the state are exposed to asbestos dust, primarily in car and railroad shops, iron and steel industry and in paper and pulp industry.
Asbestosis	1938	E.C. Vigliani, Alcune nozioni sull'insorgenza e sulla prevenzione della silicosi e dell' asbestosi, Rassegna Medicina Applicata Lavoro Industriale 9:387-394.	A general review of asbestosis and silicosis.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 278 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis	1938	T. Windel, Asbestose und ihre Berhuetung, Arbeitsschutz, pp. 26-32.	There were 27 cases of asbestosis in Germany, 16 of them fatal, up to March 31, 1937. Since then, 10 cases of asbestosis have been compensated.
England; asbestosis; lung cancer	1939	Annual Report of the Chief Inspector of Factories for the Year 1938; London: H.M. Stationery Office, pp. 79-82.	Reports 48 deaths from asbestosis in England and Wales between 1935 and 1938. Cancer of the lung was associated in 12 cases of asbestosis (11.6 percent).
Asbestosis; respirator use	1939	P. Arnold, J.R. Beal and H.A. Cookson, A case of asbestosis of the lung, British Journal of Tuberculosis 33:45-48 [#3173].	Patient employed in a chemical works cutting asbestos blocks and feeding crusher. Did not use a respirator.
Product use; asbestos cement	1939	E.W. Baader, Asbestose, Deutsche Medizinische Wochenschrift 65(11):407-408, November.	Sawing asbestos-cement construction panels and finished asbestos is a source of dust.
Dust control	1939	G.A. Coburn, Practical methods for the control of hygienic exposures, American Journal of Public Health 29:501-514, May.	A method of controlling asbestos dust during manufacture of clutch facings is described.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 279 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
United States: Illinois; dust control; respirator use	1939	Evaluation of the Industrial Hygiene Problems of Illinois; Chicago, IL: State of Illinois Department of Public Health, Division of Industrial Hygiene.	A survey of 17 asbestos plants with 2,215 workers in Illinois found 29 percent of asbestos workers were provided with local exhaust and 14.6 percent with respirators.
Asbestosis; disease progression	1939	A.W. George and R.D. Leonard, An x-ray study of the lungs of workmen in the asbestos industry, covering a period of ten years, Radiology 33:196-202 [#2899].	A study of asbestos exposure in the manufacture of brake linings, which concluded that asbestosis does not progress after removal of worker from dust.
United States; medical surveillance; shipyard workers	1939	Handbook of the Hospital Corps, United States Navy, 1939; Washington, DC: U.S. Navy Bureau of Medicine and Surgery (NavMed 130), pp. 514-521 [#2900].	Precautions to be taken to prevent hazards from pipe covering compounds and asbestos include use of masks and special physical examinations for asbestos workers.
Threshold level	1939	Industrial Dust; Chicago, IL: National Safety Council Health Practices Pamphlet No. 4.	Section on asbestosis reports U.S. Public Health Service recommendation that asbestos dust concentration be kept at less than 5 mppcf, which is number of dust particles, not asbestos fibers.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 280 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis; lung cancer	1939	M.O. Klotz, The association of silicosis and carcinoma of the lung, American Journal of Cancer 35:38-49, 1939 [#3181].	Also reviews medical literature on asbestosis and lung cancer, citing five references and eight cases.
Asbestosis; dust control	1939	A.J. Lanza, Silicosis and asbestosis, Industrial Hygiene (A.J. Lanza and J.A. Goldberg, editors); New York: Oxford University Press, pp. 387-389 [#2902].	Over 50 asbestosis cases have been under observation for nearly ten years. With few exceptions, they are still working regularly since dust exposure is now under control.
Asbestosis; hazardous processes	1939	A.J. Lanza and R.J. Vane, Industrial dusts and the mortality from pulmonary disease, American Review of Tuberculosis 39:419-438 [#2901].	The actual number of fatal cases of asbestosis supported by postmortem examination is too few to have any statistical weight, but the disease itself has been clearly demonstrated. Cases have been in textile and fabricating plants, not in mining.
Asbestosis; lung cancer	1939	J. Lowy, Occupational tumours, Supplement to Occupation and Health; Geneva: International Labour Office, October [#3180].	Twelve cases of cancer accompanied by asbestosis had been reported up to 1938. They are "still too few to be of any value."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 281 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestosis; lung cancer	1939	K.M. Lynch and W.A. Smith, Pulmonary asbestosis, V. A report of bronchial carcinoma and epithelial metaplasia, American Journal of Cancer 36(4):567-573, August [#2903].	Among the asbestosis cases at autopsy, the incidence of lung carcinoma is approximately 6 percent (six of 35 cases).
Dust control	1939	F. Prokat and T. Windel, Asbestose und ihre Bekampfung, Staub 10:264-283, November.	Recommendations for eliminating asbestos dust hazards in industrial operations.
Animal studies	1939	Report of the Director and Financial Report for the Year Ending September 30, 1939, Saranac Laboratory for the Study of Tuberculosis of the Edward L. Trudeau Foundation, Saranac Lake, New York, pp. 7-23.	Discusses asbestos animal experiments in progress.
Asbestosis	1939	E. Saupe, Weitere Beitrage zur Roentgendiagnose der Lungenasbestose, Archiv fuer Gewerbepathologie und Gewerbehygine 9:391-406.	Examination of 420 German asbestos workers. Tuberculosis was rare and no case of lung cancer was found.

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 282 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
X-ray abnormalities	1939	O. Schulz, [Health injury from industrial dust], Gasmaske 11:57-66.	A report of "lung changes similar to asbestosis in a man working with glass wool," according to abstract in Journal of Industrial Hygiene 21:216, October 1939.
Asbestosis	1939	H.M. Turner, Tuberculosis in relation to the pneumonokonioses, Journal of the Royal Institute of Public Health and Hygiene 2:381-394 [#3172].	Discusses relationship of asbestosis and tuberculosis.
Asbestosis	1939	H.M. Vernon, Health in Relation to Occupation; London: Oxford University Press, pp. 6-7 and 236-238.	History of asbestosis shows risk of overlooking occupational effects. Delay in recognition of asbestosis probably due to limited number of workers exposed.
Asbestosis	1939	T. Viegener, Asbestose und Lungentuberkulose, Zeitschrift fuer Tuberkulose 82:295-299.	A case of asbestosis complicated by tuberculosis in a German asbestos textile worker.
Asbestosis; fiber type	1939	H.W. Wedler, Klinik der Lungenasbestose, Arbeit und Gesundheit No. 4; Leipzig: George Thieme.	Surveys of 310 workers in two German asbestos factories, according to review in Journal of Industrial Hygiene 21:319-320, 1939. Notes that "amosite seems to cause more distress than other minerals."

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Property Damages and Early Knowledge Chronologies of Medical and Scientific Literature on Asbestos, Attorney...
ACL Doc 24874 · Page 283 of 283

EARLY MEDICAL/SCIENTIFIC KNOWLEDGE CHRONOLOGY

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT
DRAFT -- 5/1/93

CATEGORY	DATE	ARTICLE	COMMENTS
Asbestos bodies	1939	E. Williams, The presence of "curious bodies" in the lungs of South African gold miners, Journal of Pathology and Bacteriology 48:475-477, March [#3171].	Describes similarities and differences in bodies found in lungs of coal miners and in asbestotic lungs.
Fibrosis; threshold level	1949	A Guide to the Diagnosis of Occupational Diseases: A Reference Manual for Physicians; Ottawa: Department of National Health and Welfare Industrial Health Division, and Toronto: Department of Health for Ontario Division of Industrial Hygiene, pp. 106-107 [Source N; #4899].	A description of the clinical findings in disease associated with asbestos exposure occurring in the manufacture of asbestos textiles, brake linings and asbestos insulating products. Recommended threshold level is 5 to 10 mppcf.

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