

Introduction

1. See: *Dumping Hazardous Waste in India: Toxic Ships* by Gopal Krishna, this monograph.
 2. Appendix A: *Asbestos-Related Diseases*.
 3. Appendix B: *Production, Imports and Consumption of Asbestos in India, 1920-2006*; Appendix C: *Cumulative Consumption of Asbestos in India, 1960-2006*.
 4. Several attempts to obtain data from the Indian Government on national asbestos production, exports and consumption have proved fruitless. We have therefore relied on statistics from the United States Geological Survey (U.S.G.S). These figures are sometimes revised by the U.S.G.S. when new data become available.
 5. In his paper *Difficulties in the Diagnosis of Asbestosis in India*, Dr. V. Murlidhar uses the adjectives "ineffective" and "Kafkaesque" to describe the operations of the ESIC.
 6. See papers by Jagdish Patel and Dr. Sudhakar Kamat, this monograph.
 7. Professor Amartya Sen says that: "one single factor, namely smoking... accounts for nearly one in 10 of all deaths in India." *India Facing Smoking Death Crisis*. BBC News. February 13, 2008. Website: <http://news.bbc.co.uk/1/hi/health/7239722.stm>
A study entitled *A Nationally Representative Case-Control Study of Smoking and Death in India*, published in the *New England Journal of Medicine* in February 2008, predicts that "in 2010, smoking will cause about 930,000 adult deaths in India... Because of population growth, the absolute number of deaths in this age group (30-69) is rising by about 3% per year."
 8. See: *Asbestos Multinationals in India: the Experience of Turner & Newall* by Geoffrey Tweedale, this monograph.
 9. Author unknown. *Rough Year Forecast for Asbestos Industry*. June 7, 1982. Globe and Mail.
 10. Appendix D: National Asbestos Bans.
 11. Canadian Government File A0001347_1-000082-84: *Chrysotile Briefing* by Louis Perron.
 12. Canadian Government File A0001338_1-000041: *Chrysotile Asbestos* by Louis Perron.
 13. Canadian Government File A0001342_1-000054: email from Louis Perron to Martin Barratt October 18, 2002.
 14. Canadian Government File A0001347_2-000083-84: *Chrysotile Asbestos* by Louis Perron.
 15. Kazan-Allen L. *Killing the Future – Asbestos Use in Asia*. IBAS 2007. See website: <http://www.ibasecretariat.org>
 16. Kazan-Allen L. *United Nations Supports Restrictions on Asbestos*. March 12, 2002. See website: <http://www.ibasecretariat.org>
 17. *The Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade* was adopted in 1998 and came into force in 2004.
 18. According to Gopal Krishna of the Ban Asbestos Network of India, Brigadier Sethi of the Asbestos Information Centre and the Asbestos Cement Products Manufacturers Association was a member of the Indian delegation to COP3 making the Indian delegation the only one to have an industry representative as a member.
 19. Kazan-Allen L. *The Rotterdam Convention: Fighting for its Life*. March 19, 2008. <http://www.ibasecretariat.org>
 20. Answer to Question Q-232 asked by Mr. Martin (Winnipeg Centre).
 21. Wilkinson TL. *India Sees Trebling of Millionaires*. May 26, 2008. <http://www.efinancialnews.com/homepage/specialfeatures/2350705479/content/2450757315>
 22. Nanjappa V. *Delhi has most millionaires in India*. December 7, 2007. <http://www.rediff.com/money/2007/dec/07million.htm>
- Smoke and Mirrors: Chrysotile Asbestos is Good for You - Illusion and Confusion but not Fact**
1. Chrysotile Institute. Why so much emotion? The Asbestos Saga. Chrysotile Institute, Montreal (Quebec) Canada.
 2. International Alliance of Trade Unions "Chrysotile," 2007.
 3. International Alliance of Trade Unions "Chrysotile," 2007.
 4. Tyulkanova GM, 2007. Health must be taken care of. Trade Unions and Chrysotile, A Special Issue of the International Alliance of Trade Union Organizations "Chrysotile," April, p8.
 5. Nadrshina LI, 2007. Illness won't find us at home. Trade Unions and Chrysotile, A Special Issue of the International Alliance of Trade Union Organizations "Chrysotile," April, p7.
 6. Is Asbestos Killing 100,000 People Each Year? Chrysotile Institute, Montreal (Quebec) Canada.
 7. Lemen RA, 2006. Epidemiology of Asbestos-Related Diseases and the Knowledge that Led to What is Known Today. In: Asbestos Risk Assessment, Epidemiology, and Health Effects, Eds. RF Dodson, SP Hammar. CRC Taylor & Francis, 201-308.
 8. Smith AH, Wright CC, 1996. Chrysotile asbestos is the main cause of pleural mesothelioma. *Am J Ind Med*, 1998, Jan; 33(1): 94-96.
 9. Tyulkanova GM, 2007. Health must be taken care of. Trade Unions and Chrysotile, A Special Issue of the International Alliance of Trade Union Organizations "Chrysotile," April, p. 7; Is Asbestos Killing 100,000 People Each Year? Chrysotile Institute, Montreal (Quebec) Canada.
 10. CIS Countries Trade Unions' International Alliance "Chrysotile."
 11. Greenberg M, 2008. The defence of chrysotile, 1912-2007. *Int J Occup Environ Health*, Jan-Mar; 14(1): 57-66.
 12. Chrysotile Institute. Why so much emotion? The Asbestos Saga. Chrysotile Institute, Montreal (Quebec) Canada.
 13. Hodgson JT, Darton A, 2000. The quantitative risks of mesothelioma and lung cancer in relation to asbestos exposure. *Ann occup hyg*, 44(8): 565-601.
 14. Goodman M, Teta MJ, Hessel PA, Garabrant DH, Craven VA, Scrafford CG, Kelsh MA, 2004. Mesothelioma and lung cancer among motor vehicle mechanics: a meta-analysis. *Ann Occup Hyg*; 48(4); 309-326.
 15. Hernberg S, 1981. "Negative" results in cohort studies – How to recognize fallacies. *Scand J Work Environ Health*, 7: Suppl 4: 121-126.
 16. De Klerk NH; Musk AW, 2002. Epidemiology of mesothelioma. In: Mesothelioma, eds. BWS Robinson and AP Chahinian, Martin Dunitz, 339-349.
 17. Chrysotile Institute. Why so much emotion? The Asbestos Saga. Chrysotile Institute, Montreal (Quebec) Canada.
 18. Hodgson JT, Darton A, 2000. The quantitative risks of mesothelioma and lung cancer in relation to asbestos exposure. *Ann occup hyg*, 44(8): 565-601.
 19. USEPA, 1986. Airborne asbestos health assessment update. EPA/600/8-84/00F, Washington D.C.; Leigh J, Robinson BWS, 2002. The History of Mesothelioma in Australia 1945-2001. In: Mesothelioma ed. Bruce WS Robinson, A Phillippe Chahinian. Martin Dunitz; Stayner, LT, Dankovich, DA, Lemen, RA, 1996. Occupational Exposure to Chrysotile Asbestos and Cancer Risk: A Review of the Amphibole Hypothesis, *AJPH.*, Vol. 86, No. 2, pp. 179-186, February.
 20. Stayner, LT, Dankovich, DA, Lemen, RA, 1996. Occupational Exposure to Chrysotile Asbestos and Cancer Risk: A Review of the Amphibole Hypothesis, *AJPH.*, Vol. 86, No. 2, pp. 179-186, February.
 21. Mutsaers, SE. The mesothelial cell. *Int J Biochem Cell Biol*. 2004; Jan; 36: 1: 9-16.
 22. Suzuki, Y, Kolynema, N. Translocation of Inhaled Asbestos Fibers from the Lung to Other Tissues. *Am J Ind Med*. 1991; 19: 701-704; Kohyama, N, Suzuki, Y. Analysis of asbestos fibers in lung parenchyma, pleural plaques, and mesothelioma tissues of North American insulation workers. *Ann NY Acad Sci*. 1991; 643: 27-52.; Suzuki, Y Yuen, S, Ashley, R, Calderato, A. Asbestos fibers and human malignant mesothelioma. *Advances in the Prevention of Occupational Respiratory Diseases*, Eds. Chiyotani, K, Hooada, YI, Aizawa, Y., Elsevier Science B.V., 1998; 709-713; Sebastien, PI, Janson, X, Gausichet, A, Hirsch, A Bignon, J. Asbestos retention in human respiratory tissues: comparative measurements in lung parenchyma and in parietal pleura. *IARC Sci Pub*. 1980; 30: 237-246.
 23. Malorni, W, Losi, F, Falcini, M, Donelli, G. On the mechanism of cell internalization of chrysotile fibers. An immunocytochemical and ultrastructural study. *Environmental Research*. 1990; 52: 2: 164-177.
 24. Leversse, V, Renier, A, Fleury-Feith, J, Levy, F, Vivo, C, Pilatte, Y, Jaurand, M-C. Analysis of Cell Cycle Disruptions in Cultures of Rat Pleural Mesothelial Cells Exposed to Asbestos Fibers. *Am. J Respir Cell Mol Biol*. 1997; 17: 660-671.
 25. Selikoff IJ, Hammond EC, Seidman

- H, 1973. Cancer risk of insulation workers in the United States. Proceedings of the International Conference on the Biological Effects of Asbestos (Lyon), October 2-5, 1972; and see Howie RM, 2001. Letter to the Editor. Br Occupational Hygiene Society, Elsevier Sciences Ltd. Crown Copyright, 335.
26. Stayner LT, Kuempel E, Gilbert S, Hein M, Dement J, 2008. An epidemiologic study of the role of chrysotile asbestos fiber dimensions in determining respiratory disease risk in exposed workers. *Occup Environ Med* published online 20 Dec. 2007. doi: 10.1136/OEM.2007.035584.
27. WHO, ILO, IPCS, IARC, EPA. NIOSH, OSHA.
28. Pierce JS, McKinley MA, Paustenbach DJ, Finley BL, 2008. An evaluation of reported no-effect chrysotile asbestos exposures for lung cancer and mesothelioma. *Critical Reviews in Toxicology*, 38(3): 191-214.
29. ERG, 2003. Report of the peer consultation workshop to discuss a proposed protocol to assess asbestos-related risk. Eastern Research Group, Inc., Final Report, May 30. EPA Contract No. 68-C-98-148, Work Assignment 2003-05.
30. Selikoff IJ, Hammond EC, Seidman H, 1973. Cancer risk of insulation workers in the United States. Proceedings of the International Conference on the Biological Effects of Asbestos (Lyon), October 2-5, 1972.
31. Lacquet LM, van der Linden L, Lepoutre J, 1980. Roentgenographic lung changes, asbestosis and mortality in a Belgian asbestos-cement factory. *IARC Sci. Publ*, 30: 783-793; McDonald AD, Fry JS, Woolley AJ, McDonald JC, 1984. Dust exposure and mortality in an American chrysotile asbestos friction products plant. *Br J Ind Med*, 41(2): 151-157; Albin M, Jaksbsson K, Attewell R, Johansson L, Welinder H, 1990. Mortality and cancer morbidity in cohorts of asbestos cement workers and referents. *Br J Ind Med*, 47(9): 602-610; Piolatto G, Negri E, La Vecchia C, Pira E, Decarli A, Peto J, 1990. An update of cancer mortality among chrysotile asbestos miners in Balangero, northern Italy. *Br J Ind Med*, 47(12): 810-814.
32. Selikoff IJ, Hammond EC, Seidman H, 1973. Cancer risk of insulation workers in the United States. Proceedings of the International Conference on the Biological Effects of Asbestos (Lyon), October 2-5, 1972.
33. Chrysotile Institute. Why so much emotion? The Asbestos Saga. Chrysotile Institute, Montreal (Quebec) Canada.
34. WHO, 2006. Elimination of asbestos-related diseases. World Health Organization. Public Health and the Environment, WHO/SDE.OEH/06.03, September.
35. Chrysotile Institute, Montreal (Quebec) Canada.
36. ERG, 2003. Report of the peer consultation workshop to discuss a proposed protocol to assess asbestos-related risk. Eastern Research Group, Inc., Final Report, May 30. EPA Contract No. 68-C-98-148, Work Assignment 2003-05.
37. Stayner LT, Kuempel E, Gilbert S, Hein M, Dement J, 2008. An epidemiologic study of the role of chrysotile asbestos fiber dimensions in determining respiratory disease risk in exposed workers. *Occup Environ Med* published online 20 Dec. 2007. doi: 10.1136/OEM.2007.035584.
38. NIOSH, 2002. NIOSH Comments to DOL, June 27. National Institute for Occupational Safety and Health, US Department of Health and Human Services, Public Health Services, Centers for Disease Control and Prevention.

Abuse of Mass Media by Indian Asbestos Industry

1. LaDou J. The Asbestos Cancer Epidemic. *Environ Health Perspect*. 2004;112: 285-290.
2. Lilienfeld DE. The silence: the asbestos industry and early occupational cancer research – a case study. *Am J Public Health*. 1991;81:791-800.
3. Madhan G. Ramco Industries: Buy. *Financial Daily-The Hindu*. 2004 Oct 17.
4. Chrysotile Asbestos Cement Products Manufacturers' Association. Advertisement. *India Today*. 2002 Sep 2.
5. Chrysotile Asbestos Cement Products Manufacturers' Association. Advertisement. *Hindustan Times*. 2003 Jul 8.
6. Anonymous. Blast those myths about asbestos cement: a special feature. *The Indian Express*. 2003 Jul 15.
7. The Times of India. Asbestos cement – bubble of myths burst by facts: a Times special report. *The Times of India*. 2003 Nov 7.
8. Scientific findings squash asbestos cement myth at international conference. *The Indian Express*. 2004 Jan 24.
9. World Health Organization. Environmental health criteria 203: chrysotile asbestos. Geneva: WHO, 1998: 97-8.
10. International Agency for Research on Cancer. IARC monographs on the evaluation of carcinogenic risks to humans, Suppl 7. Lyon: IARC, 1987:106-16.
11. Landrigan PJ. Asbestos: still a carcinogen (editorial). *N Engl J Med*. 1998;338:1618-9.
12. Cullen MR. Chrysotile asbestos: enough is enough. *Lancet*. 1998;351:1377-8.
13. Chaturvedi S. Unpublished letters emailed and posted to The Editor, Indian Express sg@expressindia.com – 2003 Jul 18, Jul 24, Aug 5, and Nov 17.

14. Kazan-Allen L. Unpublished letter emailed to The Editor, Indian Express sg@expressindia.com – 2003 Aug 4.
15. Dutta M. It's time you opened your eyes to the truth. *The Indian Express*. 2003 Dec 11.
16. Tehelka bureau. The Return of Asbestos: With environmental norms in place, the uncertainty surrounding this industry recedes as companies plan to get out of the gloom. Tehelka. 2005 Feb [cited 2005 Mar 9]. Available from: http://www.tehelka.com/story_main10.asp?filename=Bu020505The.return.asp.

Health Hazards due to Asbestos Exposure in India

1. Murlidhar V, Kanhere V. Asbestosis in an asbestos composite mill at Mumbai: A prevalence study, *Environ Health*. 4:24 (2005).
2. Mansingha BK, Ranawat PS, Mineral economics and occupational health hazards of the asbestos resources of Rajasthan, *J Geol Soc (India)* 47: 375-382 (1996).
3. IPCS, International programme on chemical safety: environmental health criteria 46, 1985. *Guidelines for the Study of Genetic Effects in Human Population*, WHO Geneva. 25–54.
4. Lohani M, Dopp E, Weiss DG, Schiffmann D, Rahman Q. (2000); Kerosene soot induces genotoxicity and enhance the effect on co-exposure with chrysotile asbestos in Syrian Hamster Embryo Fibroblast; *Toxicol. Lett*. 114, 111-116.
5. Rahman Q, Dopp E, Lohani M, Schiffmann D. Occupational and Environmental factors enhancing the genotoxicity of asbestos. *Inhal. Toxicol*. 12, 157-163, (2000).
6. Rahman Q, Athar M. Asbestos-induced Carcinogenesis: An Update. *Advances in Biosciences*, 1994. (Review).
7. Schins RP, Mechanisms of genotoxicity of particles and fibers. *Inhal. Toxicol*. 14(1):57–78 (2002).
8. Lohani M, Becker H-H, Dopp E, Weiss DG, Schiffmann D, Rahman Q. (2002); Smoking Attenuates Asbestos-Induced numerical and structural Alterations of Chromosome 1 in Human Lymphocytes, A study using multicolor FISH with tandem labeling; *Toxicol. Letters*, 136, 55-63 (2002);
9. Dave SK, Beckett WS, Occupational asbestos exposure and predictable asbestos-related diseases in India. *Am J Ind Med*. 48(2):137-43 (2005).

Living with Asbestos: A Dangerous Existence

1. http://rbi.org.in/scripts/BS_PressReleaseDisplay.aspx?prid=18233
2. Construction Industry Development Council, India.
3. <http://www.indmedica.com/journals.php?journalid=7&issueid=80&action>

=editorial

4. Tushar Kant Joshi, Utpal B Bhuva, Priyanka Katoch (2006) Asbestos Ban in India: Challenges Ahead. *Annals of the New York Academy of Sciences* 1076 (1), 292–308.
5. Building and Wood Workers International (BWI) is a Global Union Federation representing about 350 trade unions in the building, construction, wood and forestry sector from 135 countries and with a membership base of around 12 million.

Potential Health Hazards of Asbestos Cement Roofing for India's Poor

1. Personal communications with Colleen Samuel, Founder and Director of Divya Shanthi Christian Association and Trust, May 10, 2006 and Divya Shanthi Staff, July 29, 2006. Formed in 1967, Divya Shanthi aims to give hope to the poor through a holistic, relational approach which includes programmes in education, medical care, social work, micro-finance and spiritual development. "Divya Shanthi programmes reach 8000 to 10000 families in North Bangalore city and surrounding villages." They also operate in Tamil Nadu in three villages affected by the 2004 tsunami (Divya Shanthi Christian Association and Trust, *Give HOPE*, Brochure, Undated (after 2002), India.
2. Researcher, Site Visits, January 18 and February 8, 2006.
3. Krishna, G., 2004 *White asbestos: Silent Killer*, Toxic Tours XVII. Online: <http://www.infochangeindia.org/toxictours17.jsp>
4. Researcher, Site Visit, February 8, 2006.
5. February 3rd, 2006.
6. Oxford City Council, 2006; DoH, 2003; OSH, AC Products, 1998; MoH, 1996.
7. 2001:3.
8. Landrigan and Soffritti, 2005:473.
9. Agarwal, 2004:2 (Researcher's emphasis).
10. Rai, Zee News, February 7, 2006:Online.
11. Vogel, personal communication, May 31, 2006; Krishna, Toxics Link, January 24, 2004:Online; *AbsoluteEnergy Ltd.*, 2004:1; MoH, N.Z., 1996:8; DoH, W.A., 2003.
12. 2005:Online.
13. Dyczek, 2004.
14. ibid.
15. Krishna, Toxics Link, January 7, 2005:Online; Joshi and Gupta, 2003:251.
16. Professor and Head of Department at an Indian medical college, name withheld, personal communication, February 20, 2006.
17. Krishna, Toxics Link, June 5, 2004:Online.
18. LHC, Chapter 3, 1995:Online.
19. citing the 1983, U.S. Consumer Product Safety Commission, ibid.

20. *ibid.*
21. Vogel, 2005:7; Hurè, 2004:1; Joshi, 2003:249.
22. Dutta and Sreedhar, 2003:254.
23. Santè Solidarités, 1998:8.1.
24. *ibid.*:8.2.1-2.
25. Bohme et. al., 2005; Jacobson, 2005; Gennaro et. al., 2005; EWG, 2004:10-24.
26. Landrigan and Soffritti, 2005:472.
27. Website, JHMRF, 2006:Online; EWG, 2004:11.
28. Glater, NYT, October 9, 2005:Online; Brickman, 2004.
29. EWG, 2004:10-14.
30. International Metalworkers Federation, 2004:Online.
31. Kazan-Allen, citing Ushijima, GAC, 2004:36.
32. EWG, 2004:7.
33. Kazan-Allen, 2005a:Online; Centre for Science and Environment, 2000:Online; personal communications: T. Joshi, June 18, 2006; G. Krishna, June 9, 2006; J. Patel, May 31, 2006.
34. UNEP 2005:56.
35. Santè Solidarités, 1998: 8.2.1-3.
36. NEDLAC, 2002:108.
37. Eternit Akmene, Undated:Online; Gibson, 2004; NEDLAC, 2002.
- Bibliography:**
- AbsoluteEnergy Limited*, 2004, *AbsoluteEnergy Policy for Insulating Asbestos Clad Roofs*, Nelson, New Zealand: *AbsoluteEnergy Limited*.
- Agarwal, R., 2004, Looking away from a deadly killer! in *Toxics Dispatch*, Toxics Link Newsletter, 24, 2. Online: http://www.toxicslink.org/docs/06053_toxics_dispatch_december_2004.pdf
- Aranovus, 2006, Aranovus asbestos roof refurbishment, in *Buildingtalk*, News Release, April 5. Online: <http://www.buildingtalk.com/news/ara/ara101.html>
- Aranovus, 2005, Refurbishing asbestos cement roofs, in *Buildingtalk*, News Release, March 17. Online: <http://www.buildingtalk.com/news/ara/ara100.html>
- Bohme, S.R., Zorabedian, J. and Egilman, D.S., 2005, Maximizing Profit and Endangering Health: Corporate Strategies to Avoid Litigation and Regulation, in *International Journal of Occupational and Environmental Health*, 11 (4) 338-348. Online: <http://www.ijoe.com/index.php/ijoe/issue/view/26>
- Brickman, L., 2004, On the Theory Class Theories of Asbestos Litigation: The Disconnect Between Scholarship and Reality, in *Pepperdine Law Review*, Abstract, 31 (33). Online: http://papers.ssrn.com/sol3/papers.cfm?abstract_id=490682
- Centre for Science and Environment, 2000, Death Inside The Factory Gates, in *Down To Earth*, 9 (9) 38-41. Online: http://www.ban.org/Library/dte_analy1.html
- Department of Health, 2003, *Environmental Health Guide: Asbestos Cement Products In Your Home*, Western Australia: Environmental Health Directorate, Population Health Division, Department of Health, Government of Western Australia. Online: http://www.population.health.wa.gov.au/environmental/resources/asbestos_cement_products.pdf
- Dhillon, G.S., 2002, Novel wood substitutes, in *The Tribune Online Edition*, May 9. Online: <http://www.tribuneindia.com/2002/20020509/science.htm>
- Divya Shanthi Christian Association, 2005, *Family Helper Project Annual Review Report*, April 2004 to March 2005, Bangalore.
- Dopp, E., Yadav, S., Ahmad Ansari, F., Bhattacharya, K., von Recklinghausen, U., Rödelsperger, K., Shokouhi, B., Geh, S. and Rahman, Q., 2005, ROS-mediated genotoxicity of asbestos-cement in mammalian lung cells *in vitro*, in *Particle and Fibre Toxicology*, 2 (9). Online: <http://www.particleandfibretoxicology.com/content/pdf/1743-8977-2-9.pdf>
- Dutta, M. and Sreedhar, R., 2003, The Blighted Hills of Roro, Jharkhand, India: A Tale of Corporate Greed and Abandonment, in *International Journal for Occupational and Environmental Health*, 9 (3) 254-259. Online: <http://www.ijoe.com/index.php/ijoe/issue/view/12>
- Dyzek, J., 2004, Surface of Asbestos-Cement (AC) Roof Sheets and Assessment of Risk of Asbestos Release. In *Global Asbestos Congress (GAC 2004)*, November 19-21, Tokyo, Japan: International Ban Asbestos Secretariat.
- Environmental Working Group, 2004, *Asbestos Litigation Reform Reconsidered*, Environmental Working Group. Online: <http://www.ewg.org/reports/printerfriendly.php>
- Eternit Akmene, Joint Stock Company, Undated (after 2001), *Reorganisation of the Slating Line from P5 Format Curly Sheet to CB40 Format Asbestos-Free Curly Sheet Line*, Case Study. Online: <http://virtual.vtt.fi/virtual/constrinnet/material/final%20report/cases/013%20lithuania%20eternit%20akmene.pdf>
- Gennaro, V. and Tomatis, L., 2005, Business Bias: How Epidemiologic Studies May Underestimate or Fail to Detect Increased Risks of Cancer and Other Diseases, in *International Journal of Occupational and Environmental Health*, 11 (4) 356-359. Online: <http://www.ijoe.com/index.php/ijoe/issue/view/26>
- Gibson, B., 2004, A Practical Approach to Asbestos Management. In *South African Institute for Occupational Hygiene Conference*, March 10, Mabalingwe. Online: www.saioh.org/SAIOH04/Asbestos1.pdf
- Glater, J.D., 2005, The Tort Wars, at a Turning Point, in *The New York Times*, October 9. Online: <http://www.nytimes.com/2005/10/09/business/09tort.html>
- Hurè, P., 2004, *Respiratory diseases linked to exposure to products such as asbestos: Are preventive measures sufficient?* Report, September. Online: <http://www.hesa.etui-rehs.org/uk/dossiers/files/hur%C3%A9-asbestos.pdf>
- International Labour Organisation, 2006, *International Labour Conference Provisional Record Ninety-fifth Session: Report Of The Finance Committee Of Government Representatives*, Nineteenth and Twentieth Sittings, June 14, Geneva:ILO. Online: <http://www.ilo.org/public/english/standards/relm/ilc/ilc95/pdf/pr-23.pdf>
- International Metalworkers Federation, 2004, James Hardie about-faces, in *International Metalworkers Federation News*, August 30. Online: <http://www.imfmetal.org/main/index.cfm?n=47&l=2&c=9605>
- Jacobson, M.F, 2005, Lifting the Veil of Secrecy from Industry Funding of Nonprofit Health Organizations, in *International Journal of Occupational and Environmental Health*, 11 (4) 349-355. Online: <http://www.ijoe.com/index.php/ijoe/issue/view/26>
- Joshi, T.K. and Gupta, R.K., 2003, Asbestos-related Morbidity in India, in *International Journal of Occupational and Environmental Health*, 9 (3) 249-253. Online: <http://www.ijoe.com/index.php/ijoe/issue/view/12>
- Kazan-Allen, L., 2005, *Asbestosis In India*, International Ban Asbestos Secretariat, November 8. Online: http://www.ibasecretariat.org/lka_asb_india_11_05.php
- Kazan-Allen, L., 2005, *Global Asbestos Congress (GAC 2004)*, Report of proceedings, November 19-21, 2004, Tokyo, Japan: International Ban Asbestos Secretariat. Online: http://www.ibasecretariat.org/lka_gac_2004_online_report.php
- Krishna, G., 2006, Plight of Asbestos Victims in India, in *Independent Media Centre India*, January 6. Online: <http://www.india.indymedia.org/en/2006/01/211307.shtml>
- Krishna, G., 2005, Environmental groups seek urgent ban on white asbestos, in *Toxics Link*, Press Release, January 7. Online: <http://www.toxicslink.org/mediapr-view.php?pressrelnum=17>
- Krishna, G., 2004, Environmental groups warn of asbestos epidemic, call for its ban, in *Toxics Link*, Press Release, June 5. Online: <http://www.toxicslink.org/mediapr-view.php?pressrelnum=12>
- Krishna, G., 2004, Alternatives to asbestos, in *Toxics Link*, January 24. Online: <http://www.toxicslink.org/art-view.php?id=12>
- Landrigan, P.J. and Soffritti, M., 2005, Collegium Ramazzini Call for an International Ban on Asbestos, in *American Journal of Industrial Medicine*, 47, 471-474. Online: <http://hesa.etui-rehs.org/uk/dossiers/files/AsbestosBan2005.pdf>
- London Hazards Centre, 1995, *Asbestos Hazards Handbook*, London: London Hazards Centre. Online: <http://www.lhc.org.uk/members/pubs/books/asbestos/ash-toc.htm>
- Ministry of Health, 1996, *All About Asbestos*, New Zealand: Ministry of Health. Online: <http://www.healthed.govt.nz/upload/PDF/7021.pdf>
- National Economic Development & Labour Council, 2002, *The socio-economic impact of the phasing out of Asbestos in South Africa: A Study undertaken for the Fund for Research into Industrial Development, Growth and Equity (FRIDGE)*, South Africa: National Economic Development & Labour Council. Online: <http://www.nedlac.org.za/>
- Occupational and Environmental Diseases Association, 2006, *Asbestos In your home*, OEDA Leaflet.
- Occupational Safety and Health, 1998, *A Guide to Working with Asbestos-Cement Products*, Wellington, New Zealand: Department of Labour. Online: <http://www.osh.dol.govt.nz/order/catalogue/pdfs/asb003.pdf>
- Oxford City Council, 2006, *Asbestos: Preventing a Health Hazard in Your Home*, Oxford Building Solutions Leaflet, Oxford: Oxford City Council.
- Rahman, Q., Vetteshirm, P., Smith, K.R., Seth, P.K. and Selkirk, J., 2001, *International Conference on Environmental and Occupational Lung Diseases: Meeting Reports*, April. Online: <http://www.ehp.niehs.nih.gov/docs/2001/109p425-431>
- Rai, I., 2006, Asbestos: The Magic Mineral No One Wants except India, in *Zeenews.com*, February 7. Online: <http://www.zeenews.com/znnew/articles.asp?aid=269268&sid=ZNS>
- Ruskulis, O., 1996, Technical Brief: Micro-Concrete Roofing Tile Production, in *Appropriate Technology*, 23 (1) ATBrief 16. Online: http://www.itdg.org/docs/technical_information_service/microconcrete_roofing_tiles.pdf
- Santè Solidarités, 1998, *Chrysotile Asbestos: Environmental Health Criteria 203 International Programme On Chemical Safety (IPCS)*, Organisation

Mondiale de la Santé. Online: <http://www.sante.gouv.fr/amiante/connaître/sciences/rapportc1.htm>

Stayner, L.T., Dankovic, D.A. and Lemen, R.A., 1996, Occupational Exposure to Chrysotile Asbestos and Cancer Risk: A Review of the Amphibole Hypothesis, in *American Journal of Public Health*, 86 (2) 107-114. Online: <http://www.cdc.gov/niosh/pdfs/97-162-d.pdf>

United Nations Environment Programme, 2005, *Sri Lanka Post Tsunami Environmental Assessment*, UNEP and Ministry of Environment and Natural Resources of Sri Lanka. Online: http://www.unep.org/tsunami/reports/Sri_Lanka_Report_2005.pdf

Vogel, L., 2005, Asbestos in the world, in *HESA Newsletter*, The Health and Safety Department of the European Trade Union Institute: Research, Education, Health and Safety, 27, 7-21. Online: <http://hesa.etui-rehs.org/uk/newsletter/files/Newsletter27p7-21.pdf>

Website, 2006, *June Hancock Mesothelioma Research Fund*. Online: <http://www.leeds.ac.uk/meso/>

Asbestos Multinationals in India

1. R. Turner to Rooksby, June 1, 1937. All documents cited below are from the T&N archive.
2. H.W. Phillips to Mulund Works manager, January 31, 1938.
3. R. Turner to Rooksby, March 14, 1938.
4. Hardie to W.P. Howard, March 1, 1966.
5. See G. Tweedale and Jock McCulloch, *Defending the Indefensible: The Global Asbestos Industry and Its Fight for Survival* (Oxford: OUP, 2008); and J. Jayaratnam, The Transfer of Hazardous Industries, *Journal of Society of Occupational Medicine* 40 (1990), pp. 123-6.
6. Raines's Report on International Conference of Asbestos Information Bodies, 1971, to F.J. Solon, December 10, 1971.
7. Lewinsohn, Report on a Visit to India, November 1, 1975-November 15, 1975.
8. A.L. Rickards, Hindustan Ferodo Ltd: Visit on October 30, 1978.
9. J.T. Allardice, Letter re. Visit to India, November 10, 1979-November 21, 1979.
10. Hardie to T&N directors, April 16, 1981.
11. Yorkshire TV, Alice – A Fight for Life, July 20, 1982.
12. Richard A. Wells (T&N director), Notes on a Visit to Hindustan Ferodo, October 20/24, 1982.
13. Face the Facts, BBC Radio 4, October 13, 1993.

The Struggle against Asbestos-Related Diseases in Gujarat

1. Gujarat State Gazette, Part I, June 1989.
2. *ibid.*
3. *ibid.*
4. Report of the Committee to Study Health Hazards in Asbestos Industry.
5. Petition submitted by CERC, Ahmedabad in Supreme Court of India, 1986.
6. Bob Wyrick. Asbestos Plant threatens a village in India. Part IV of Hazards for Export, Newsday.
7. Barry Castleman. Industrial Hazards Exported to India. *Economic and Political Weekly (India)*, June 1981.
8. Rejoinder submitted by CERS in Supreme Court and interview with Rani Advani, the author took in 1990.
9. Castleman B. India: Asbestos Update. (2002): http://www.ibasecretariat.org/bc_india_asb_update.php
10. Letter to Chief Inspector of Factories from Ahmedabad Elect. Company. June 19, 1995.
11. *Mazdhanr men Jivan: Alang Aur Chatgaan men Shipbreaking Udyog*-Greenpeace/HIDH Publication. 2007 (Hindi).
12. Written information given by ESIC under Right to Information Act. 2005.

"Monitoring" Environmental Pollution and Asbestos Exposure in Gujarat

1. Hirway, I. and D. Mahadevia. 2004. Gujarat Human Development Report, 2004. Mahatma Gandhi Labour Institute, Ahmedabad.
2. Dupont, V. 2005. Peri-Urban Dynamics: Population, Habitat and Environment on the Peripheries of Large Indian Metropolises: An Introduction in Dupont, V. (eds.), *Peri-Urban Dynamics: Population, Habitat and Environment on the Peripheries of Large Indian Metropolises: A Review of Concepts and General Issues*. CHS Occasional Paper No. 14. French Research Institutes India.
3. Joshi, T.K., Bhuvu, U.B and P. Katoch. 2006. Asbestos Ban in India: Challenges Ahead, *Annals New York Academy of Sciences*, Vol. 1026: 292-308.
4. National Institute of Occupational Health 1997. A Report on Assessment of Ambient Air Pollutants in Vicinity of Gujarat Composite Limited, Ahmedabad.
5. Pancholi 1997. "Comments of the expert on the report submitted by NIOH: In special civil application no.8617 of 1997 in the matter of environmental pollution with respect to Shri Digvijay Cement Co. Ltd."
6. Lipschutz, R. 2004. "Global Civil Society and Global Governmentality: or, the Search for Politics and the State amidst the Capillaries of Social Power." Barnett, M. and R. Duvall (eds.) *Power in Global Governance*. Cambridge University Press, Cambridge.

Difficulties in the Diagnosis of Asbestosis in India

Bibliography:

1. Aberle, D. R., G. Gamsu, et al. (1988). High-resolution CT of benign asbestos related diseases: clinical and radiographic correlation. *Am J Roentgenol* 151: 883 - 891.
2. American Thoracic, S. (2004). Diagnosis and Initial Management of Nonmalignant Diseases Related to Asbestos. *Am J Respir Crit Care Med* 170: 691 - 715.
3. Braunwald, E. (2001). *Harrison's Principles of Internal Medicine*.
4. Duesberg, P., R. Li, et al. (2005). The Chromosomal Basis of Cancer. *Cellular Oncology* 27: 293-318
5. Genevois, P. A., P. De Vuyst, et al. (1994). Conventional and high-resolution CT in asymptomatic asbestos-exposed workers. *Acta Radiol* 35: 226 - 229.
6. International Labour, O. (2003). *International Classification of Radiographs of Pneumoconioses*.
7. Markowitz, S. B., A. Marabia, et al. (1997). Clinical predictors of mortality from asbestosis in the North American Insulator Cohort. *Am J Respir Crit Care Med* 156: 101 - 108.
8. Mudur, G. (2003). Asbestos poisoning was covered up by doctors, claims health team. *BMJ* 327: 248.
9. Murlidhar, V. (2002). Occupational diseases among textile workers of Mumbai. *Natl Med J India* 15: 181.
10. Murlidhar, V. (2002). Occupational health physicians: unwilling or unable to practise ethically. *Indian Journal of Medical ethics* 10: 26.
11. Murlidhar, V. (2005). Demystifying Occupational and Environmental Health: Experience from India. *Science and Citizens: Globalization and the Challenge of Engagement*. M. Leach, I. Scoones and B. Wynne. London, UK, Zed Books: 130-141.
12. Murlidhar, V. and V. Kanhere (1998). Occupational noise-induced hearing loss: the first two cases compensated in India. *Natl Med J India* 11: 150.
13. Murlidhar, V. and V. Kanhere (2005). Asbestosis in an asbestos composite mill at Mumbai: A prevalence study. *Environ Health* 4(1): 24.
14. Murlidhar, V., V. Murlidhar, et al. (1995). Byssinosis in a Bombay textile mill. *Natl Med J India* 8: 204-207.
15. Murlidhar, V., V. Murlidhar, et al. (2005). Evaluation of Impairments and Disabilities.
16. Murlidhar, V., V. J. Murlidhar, et al. (1995). Byssinosis in a Bombay textile mill. *Natl Med J India* 8(5): 204-7.
17. Weinberg, R. A. and W. C. Hann (2002). Rules for making Human Tumour Cells. *New England Journal of Medicine* 347(20): 1593-1603.



India's Asbestos Time Bomb

Although asbestos, an acknowledged carcinogen, is banned by developed countries, consumption is growing in India. The damage to human health and the pollution of the environment caused by the use of 7 million tonnes of this toxic substance have remained unacknowledged by a government obsessed with the quest for economic development.

In the absence of official action, concerned citizens in India work to assist the injured and raise awareness of the asbestos hazard. This publication gives campaigners the opportunity to document their experiences and, in conjunction with international experts, highlight the measures needed to deal with the country's asbestos legacy. The contributing authors are unanimous in their belief that the use of asbestos must be banned in India.