

## Research Publications of Prof A K Pal

### Books/chapters/Monographs

- ◆ Monograph : 2
  - ✓ Development of Noise Indices for coal mining complexes
  - ✓ Community Development in coal mining complexes
  
- ◆ Publication of book: Joint Author of the book entitled "Mining Environment Management Manual" published by Scientific Publishers (India), 2005.
  
- ◆ Contribution in books: Contributed two Chapters namely, Air Pollution Management (pp 248-268) and Noise Pollution Management (pp 269-328), in the Book entitled "Environmental Management in Mining Areas", edited by N C Saxena et al., Published by Scientific Publishers (India), Jodhpur, 2002.
  
- ◆ Contributed "Community Development/Rehabilitation and Resettlement Activities in Coal mining areas" and "Environmental Management in Mining Complexes" in the Book entitled Managing in the New Global Order edited by Kampan Mukherjee, et al, published by EXCEL Books (ISBN:978-81-7446-577-1) , 2008
  
- ◆ Contributed a Chapter entitled "Ill effects of Noise Pollution on Human Beings and Animals " in the Book "Environmental Health: Human and Animal Risk Mitigation",edited by Prof SudhiRanjan Garg, Satish Serial Publishing House (SSPH), Delhi, May- June, 2012.
  
- ◆ Pal, A.K., Singh, P.K., Anshumali., Sinha, A., and Mishra, B K (2000). Edited the proceeding of two days National Conference on " Sustainable Development of Groundwater Resources in Industrial Regions (SDGRIR 2012" March 22-23, 2012, ESE Department, ISM, Dhanbad

### Papers published

#### International Journals

1. Deepa Agarwal, Jai Krishna Pandey, Bably Prasad, Asim Kumar Pal, 2016. Serum Copper and Zinc level as biomarker for dust exposed lung diseases among coal miners. Journal of Biodiversity and Environmental Sciences (JBES). ISSN: 2220-6663 (Print) 2222-3045 (Online). Vol 8, No. 1, p. 65-74. **Thomson Reuter Journal**.
2. Snigdha Kundu., Asim Kumar Pal, 2015. Estimation of air quality in the Opencast Mine of Jharia Coal Field, India. Current World Environment, **Thomson Reuter**. Vol. 10 (2), 691-697 (2015).
3. Deepa Agarwal, J K Pandey, AK Pal. 2015. Study on Pulmonary Function Test of Mine workers exposed to respirable dust in Jharia coalfield, India. International Journal of Scientific and Engineering Research. Vol 6, Issue 5, May 2015, pp:1570-76
4. Snigdha Kundu., Asim Kumar Pal, 2015. The evaluation of airborne respirable particulates in opencast mining area of Jharia coal field using Grimm 1.109 real-time portable aerosol spectrometer. Journal of Biodiversity and Environmental Sciences (JBES) [ISSN:2220-6663, **Thomson Reuter**], Vol 6, No 4, p.276-287. IF: 1.356

5. Bhawna Dubey, Asim Kumar pal and Gurdeep Singh. 2014. Air quality Index of an industrial district of Jharkhand, India. *International Journal of Engineering Sciences & Research Technology*, 3(5): May, 2014
6. Mandal, B.B., Pal, A. K., Sishodia, P.K (2013). Vibration Characteristics of Mining Equipment used in Indian Mines and their Vibration Hazard Potential. *International Journal of Environmental Health Engineering* (ISSN: 2277-9183), July-August, 2013, Vol 2(4):14-22.
7. Amit Kumar Mishra, Subodh Kumar maiti, Asim Kumar Pal. Status of PM10 bound heavy metals in ambient air in certain parts of Jharia coal field, Jharkhand, India. *International Journal of Environmental Sciences*, Vol 4, No. 2: 141-150, September, 2013
8. Bhawna Dubey, Asim Kumar Pal and Gurdeep Singh. 2013. Assessment of vehicular pollution in Dhanbad city using CALINE 4 model. *International journal of Geology, Earth and Environmental sciences*, Vol 3(1), pp 156-164. ISSN:2277-2081. **Scopus**.
9. Bhawna Dubey, Asim Kumar Pal & Gurdeep Singh. Airborne Particulate Matter and their possible sources in the Industrial Region of Jharkhand, India, in an Annual Period. *The Journal of Energy and Environmental sciences – Photon*. Peer Reviewed Journal, ISJN: 4382-1729 (Impact Index 3.23), 127 (2013) 201-208.
10. Bhawna Dubey, A K Pal and Gurdeep Singh. Impact of Coal mining activities in Jharia Coalfield on air environment. *International Journal of Ecology, Environment and Conservation*, 17 (2): 2011; pp(231-238).**Scopus**.
11. Bhawna Dubey, A k Pal and Gurdeep Singh. Status of Particulate Matter in Dhanbad Region, Jharkhand of India. *Global Journal of Applied Environmental Sciences*, ISSN 2248-9932, Volume 1, Number 2 (2011) pp. 153-159.
12. Dubey, B., Pal, A.K., Singh, G . Trace metal composition of airborne particulate matter in the coal mining and non-mining areas of Dhanbad region, Jharkhand, India. *Atmospheric Pollution Research*, Vol. 3, Issue 2, 2012, 238-246. **SCI journal**, ISSN:1309-1042, IF:1.227.
13. Suman., Singh, G., Pal, A.K. Source apportionment of respirable particulate matter using Principal Component analysis: A case study from India. *International Journal of Applied Environmental Sciences*, Volume 5, Issue 6, 2010, Pages 909-920. **Scopus**, ISSN:0974-0260, 0973-6077, H index-3.
14. Papiya Roy, Gurdeep Singh and Asim Kumar Pal. Air Quality Depreciation Index in a coal mining area – A case study from Eastern India. *Journal of American Science*, 6(5):107-114, 2010, ISSN:1545-1003
15. Gorai, A. K., Maity, S and Pal, A. K. Development of the path model in road traffic noise annoyance of Dhanbad township. *Noise & Vibration Worldwide*, Vol 38 (3), March 2007, pp 17-22. **Scopus**, ISSN: 0957-4565, H index: 8.
16. Pal, A. K., Mukhopadhyaya, A K and Agarwal, S.C. Portable diamond cutter for sawing Kotah Stone – a case study on its noise emission and control. *Noise & Vibration Worldwide*, Vol 37 (10), November 2006, pp26-32.**Scopus**, ISSN: 0957-4565, H INDEX: 8.
17. Gorai, A K and Pal, A K Noise Impact Assessment of an Iron ore Mining complex. *Noise Control Engineering Journal*. 54 (6), 2006 Nov-Dec. **Thomson Reuter**, ISSN:0736-2501, IF: 0.462

18. Gorai, A K., Mukhopadhyaya, A K and Pal, Control of Noise problems in the Bailadila Iron ore mine, India. *Journal of Mining and Geology*, Vol. 42(2), 2006, pp 21-30.
19. Maity, S., Gorai, A.K. and Pal, A.K. Determination of Path Coefficients and Its Application in Road Traffic Noise Annoyance – A Theoretical Approach. *Environmental Monitoring and Assessment*, **Springer Netherlands** 2006, 117: 21-26. **SCI**, IF:1.679.
20. Pal, A.K. and Kumar, U.C. Quality of Life (QoL) Concept for the Evaluation of Societal Development of Rural Community in West Bengal, India. *Asia-Pacific Journal of Rural development* (ISSN:1018-5291), Vol. XV, No. 2, Dec 2005, pp 83-94
21. Mohalic, N. K. and Pal, A. K. Development of a Noise Model with respect to sound propagation and the application to a mining complex. *Noise & Vibration World Wide*, Vol. 34 No. 2. February 2003, pp 8-16. **Scopus**, ISSN: 0957-4565, H index: 8.
22. Sinha, Vinod P., Pal, A.K. and N.C.Saxena. Noise Impact Assessment in TISCO mining complexes in Jharia coalfield. *Noise & Vibration Worldwide*, Vol. 34 No. 1. January 2003, pp 8-24. **Scopus**, ISSN: 0957-4565, H index: 8.
23. Pal, A.K., and Samanta, S. Road Traffic noise status in Dhanbad, an industrial town of coal belt in India. *Noise & Vibration Worldwide*, Vol. 33 No. 10. November 2002, pp 10-23. **Scopus**, ISSN: 0957-4565, H index: 8.
24. Puri, S.K., A.K.Pal and N.C.Saxena. Air blast and ground vibrations due to blasting at Gevra Project of South Eastern Coalfields Ltd in India. *Noise & Vibration Worldwide* , Vol. 32 No. 7. July 2001, pp 16-23. **Scopus**, ISSN: 0957-4565, H index: 8.
25. Puri, S.K., A.K.Pal and N.C.Saxena. Condition-based monitoring and maintenance system at a large opencast mine in India. *Transactions of Society for Mining, metallurgy, and Exploration, Inc.* (ISSN:1075-8623) , Vol. 308, 2000.
26. Pal, A.K., V.Kumar and N.C.Saxena. Noise Attenuation by Green Belts. *Journal of Sound and Vibration* (2000) 234(1), 149-165. **SCI, Thomson Reuter**, IF: 1.857.
27. Pal, A.K. and Sinha, D.K. The Energy Cost of metalliferous mining operations in relation to the aerobic capacity of Indian miners, *Ergonomics Journal* (U.K.), Vol. 37, No. 6, June 1994. **SCI, Thomson Reuter**, IF: 1.608.

### National Journal

1. S.N.Bag., U.C.Kumar and A.K.Pal. 2015. Challenges, Threats and Opportunities of Jute Industry – A Review. *Man-made Textiles in India*, ISSN-0377-7537. Oct 2015. Vol. XLIII No 10. pp 385-391.
2. Deepa Agarwal, Jai Krishna Panday, K K Mishra, M K Vishakarma, A K Pal, A K Bandyopadhyaya. Studies on various factors and early diagnosis for dust linked Lung disease. *MineTECH, 13: Workshop on Clean Technologies –Extraction, Beneficiation & Use.*, organised by the *India Mining & Engineering Journal*: May 03-04, 2013, Bhubaneswar.
3. Bhawna Dubey, A K Pal and Gurdeep Singh. Source Identification of trace elements in PM<sub>10</sub> from coal mining areas of Jharia Coalfield, Eastern India, *Indian Journal of Air Pollution Control*, ISSN 0250-5231, Volume XI (1) (2011), pp 86-91.
4. Roy, Papiya., Singh, Gurdeep and Pal, A. K. Multivariate Analysis of trace elements at Talcher Coal Field, Orissa, India. *Indian Journal of Air Pollution Control*, 9(2):16-21, September 2009.
5. Jai Prakash, Singh, Gurdeep and Pal, A. K. Role of meteorology in predicting PM<sub>10</sub> concentrations at Dhanbad. *Journal of Air Pollution Control*, 9(2): 84-93, September 2009.

6. Gorai, A.K., Mukhopadhyaya, A.K. and Pal, A.K. Noise problems in an Iron ore mine and its control measures. *Minetech*, Vol 28, No. 4, Oct-Dec., 2008
7. A K Pal and N C Saxena, 2004. Societal Cost of Community Noise. *Journal of the Institution of Public Health Engineers, India*, Special issue published on the occasion of National Seminar on Environmental Engineering with special emphasis on Mining Environment, March 2004
8. Amit Gorai, H Mitra, S Ghosh, AMukhopadhyaya and A K Pal, 2004. Workplace noise status of Kotah stone mining complex. *Journal of the Institution of Public Health Engineers, India*, Special issue published on the occasion of National Seminar on Environmental Engineering with special emphasis on Mining Environment, March 2004
9. E V R Raju and a K Pal, 2004. Post mining land use planning – key to successful mine closure. *Journal of the Institution of Public Health Engineers, India*, Special issue published on the occasion of National Seminar on Environmental Engineering with special emphasis on Mining Environment, March 2004.
10. Kumar, U.C. and Pal, A.K. 2004. Societal development of Rural Community in India. *Journal of Indian Science Cruised*, Vol 18, No. 1, Jan 2004.
11. Kumar, Uday Chand. and Asim Kumar Pal. Assessment of Quality of Life (QoL) based on House Conditions – A case study. *Journal of Technical and Vocational Education*, Vol.20, No.1, July 2003.
12. Kumar, Uday Chand. and Asim Kumar Pal. Assessment of Quality of Life (QoL) based on Kitchen facilities – A case discussion. *Journal of the Institution of Public Health Engineers*, Vol.2002, No.2, April-June 2002.
13. Singh, Prasun Kumar and Pal, A K. Noise Pollution a silent killer. *Employment News (weekly)*, New Delhi edition, 31 May – 6 June, 2003
14. Sinha, Vinod P., A.K.Mukhopadhyay, H.Mitra and A.K.Pal. Noise, Vibration and Shock Pulse Monitoring for assessing the health of some mineral processing plant equipment. *Minetech*, Vol. 22, No. 4, Jul.-Aug. 2001
15. Pal, A.K., Sinha, Vinod P., Puri, S.K. and N.C.Saxena. Ambient Noise Impact Assessment for Residential Community. *Journal of Environmental Studies and Policy* 3( 1 ): 39-49, June 2000
16. Pal, A.K. , Kumar, V.andN.C.Saxena. Sound Attenuation through Trees - Measurement and Modelling. *MINETECH*, Volume 21, No.3 & 4, P 90-97, May-August, 2000
17. Pal, A.K. and N.C.Saxena. Noise Impact Assessment for coal mining residential complexes. *MINETECH*, Volume 21, No.2, P 7-12, March-April, 2000
18. Saxena, N.C.; and A.K.Pal. Societal Cost of Environmental Pollution. *MINETECH Journal*, vol.21, no.1, Jan-Feb.,2000.
19. Kumar V.; R.K.DasA.K.Pal; and N.C.Saxena. Biofertilizer- An eco-friendly fertilizer. *Environmental Pollution Control Journal*, vol.3, no.1, Nov-Dec., 1999
20. Sinha, V.P.; A.Mukhopadhyay; H.Mitra and A.K.Pal. Condition Monitoring and Performance Analysis of Noise Emitting Equipment - a case study. *Environmental Pollution Control Journal*, vol.3, no.1, Dec.,1999.
21. Pal, A.K.; and N.C.Saxena. Assessment of Quality-of-Life in Mining Complexes - *Journal of Environmental Studies and Policy*, TERI Publication, vol.2, no.2, Dec.,1999.
22. Nayak, S.C.; A.K.Pal; and N.C.Saxena. A strategic approach for mining waste dump management planning. *Environmental Pollution Control Journal*, vol.2, no.3, March-April, 1999.
23. Nayak S.C.; A.K.Pal; P.Sen and N.C.Saxena. Evaluation of environmental impacts of an iron ore mine. *Environmental Pollution Control Journal*, vol.2, no.4, May-June, 1999.
24. Pal, A.K.; V.Kumar; G.C.Thakur and N.C.Saxena. The role of green belt in noise attenuation - a case discussion. *Minetech Journal*, vol.20, no.2, March-April 1999.

25. Vibash Kumar, R K Das, A K Pal and N C Saxena. Biofertilizer – an Eco-friendly Fertiliser. Environmental Pollution control Journal, Nov-Dec 1999.
26. Saxena, N.C.; A.K.Pal; B.K.Prusti and P.Kumar. Quality of life indexing for mining complexes. The Indian Mining and Engineering Journal, vol.37, no.7, July 1998.
27. Kali, A., A.K.Pal., T.K.Sarkar., M.N.Tarafdar., and N.C.Saxena. Impacts of a mine fire at Sudamdih on air pollution and social spectrum - Journal of Environmental Studies and Policy, TERI Publication, vol. 1, no.1, June, 1998
28. Kumar, V., A.K.Pal., and N.C.Saxena. Pollution status of aquatic system of central part of Jharia coalfield with special reference to heavy metal, Indian Journal of Environmental Protection, vol. 17, no.4, April 1997.
29. Pal, A.K., S.Ghosh.,T.K.Sinha and N.C.Saxena. Vehicular traffic noise on national and state highways - a case study, Minetech, vol.18, no. 5 & 6, Sep-Dec., 1997.
30. Ghose, S., A.K.Pal, and N.C.Saxena. Impact of roadway traffic and transport on Human Health. Energy Environment Monitor, TERI Publication, Urban Environment Management issue, vol. 12, no. 2, Sept., 1996.
31. Jena, R., A.K.Pal. and N.C.Saxena. Noise Impact Assessment - An approach. Energy Environment Monitor, TERI Publication, Urban Environment Management Issue, vol. 12, no. 2, Sept. 1996.
32. Pal, A.K., H. Mitra and K. Mukherjee. Illumination study and analysis in opencast mining environment - A case study. Indian Journal of Environmental Protection, Vol. 15, No. 1, Jan., 1995
33. Pal, A. K., P.K. Singh and H. Mitra. Effect of noise on hearing acuity with respect to the workers of Cement Plants. Institute of Engineers (I) Journal, Vol. 76, Nov. 1995
34. Pal, A.K. and Sinha, D.K. Analysis of Job Demands vis-à-vis Safety in mines through Ergonomics Application. Journal of Indian Institute of Industrial Engineering, Vol. XXIII, No. 3, March, 1994
35. Pal, A.K., H. Mitra and S.P. Banerjee. Noise pollution in coal washery - A case discussion. Journal of the Institution of Public Health Engineers, India. Vol. 1994, No. 2, April-June, 1994
36. Pal, A.K. and H. Mitra. Noise pollution in coal washery and its management. Institute of Engineers (I) Journal, Vol. 75, Nov. 1994
37. Pal, A. K and H Mitra. Noise Pollution in Mines – its Monitoring and Abatement with reference to Underground Mines. Minetech, Vol 15, No 3, 1994
38. Pal, A.K. and H Mitra. The effects of noise on hearing acuity with respect to the workers of coal washeries Indian Journal of Environmental Protection, Vol. 12, No. 5, May., 1992
39. Pal, A.K. and H. Mitra. Noise pollution in mines and its abatement. Institute of Engineers (I) Journal, Vol. 72, May, 1991
40. Pal, A.K. and H Mitra. Monitoring and Abatement of noise pollution in opencast mines. Indian Journal of Environmental Protection, Vol. 10, No. 8, August, 1990.
41. Pal, A.K. and H. Mitra. Noise pollution in Mines. MINETECH Journal, Vol. II, No. 3, May-June, 1990
42. Sinha, D.K., Pal, A. K. and S. Mitra. Planning of Underground Coal Clearance System by System Simulation. Institute of Engineers (I) Journal, MI, May 1988
43. Sinha, D.K., Pal, A. K. and S. Mitra. Computerised Production and Resource Planning - A case study. Institute of Engineers (I) Journal, MI, Vol. 68, Nov. 1987
44. Pal, A.K. and D.K. Sinha. Underground Mine Transportation System through Analytical and Simulation technique. IMMA Review, Vol. XX, No. 4. October, 1983.

## **National/International Seminar/Symposium /Workshop**

1. Veena Manwar, Dr B B Mandal and Dr A K Pal. 2015. Study of noise propagation of an opencast mine through Noise Modeling and Mapping. National Conference on emerging issues in Environment Occupational Health & Safety held during 22-24 July, 2015 at Nirmal Bhavan, ROHC(S)-NIOH-ICMR Complex, Bengaluru
2. Deepa Agarwal, Rajnish Dubey, J K Pandey, K K Mishra, A K Pal & A K Bandopadhyay, 2014. Probability of development of Genetic Disorder along with Silicosis in Coal Mines workers resulting from inhalation of quartz-laden dust- A Review, Proceedings of International Symposium on Environmental Management and Current Practices in Mining & Allied Industries, Department of Mining Engineering, Indian Institute of Technology (Banaras Hindu University) 13-15 pp: 437-445.
3. Asim Kumar Pal.2014. Ergonomics and its Application in Mines. National Workshop on Applied Ergonomics for Mining, organized by National Institute of Miner's Health, Nagpur in collaboration with Directorate General of Mines Safety, University of Calcutta, Indian Institute of Management, Shillong and National Institute of Design, Ahmedabad
4. Bhawna Dubey, Asim Kumar Pal and Gurdeep Singh. Effect of Air pollution on human health in Jharia coalfield. UGC sponsored National Seminar on Biodiversity : its conservation and sustainable development for human welfare, organized by University Department of Zoology, VinobaBhave University, Hazaribag, Jharkhand in collaboration with Zoological Society of India, Budh Gaya, Bihar during 7-9 April, 2012
5. Suresh Pandian and Asim Kumar Pal . Impact of Traffic road type and non-vehicular sources on SPM and RPM in Indian urban city Dhanbad using M-GFLSM model. 2<sup>nd</sup> International Conference on Sustainable Energy and Environmental Sciences (SEES 2013), organized by Global Science Technology Forum (GSTF) held on 25-26 Feb, 2013 at Singapore.
6. Bhawna Dubey and Asim Kumar Pal. Concentration and distribution of trace metals in respirable particulate matter (PM<sub>10</sub>) of different locations of Jharia Coalfield, India Science Congress, 3-7 Jan, 2012.
7. Bhawna Dubey and Asim Kumar Pal. An assessment of respirable particulate matter (PM<sub>10</sub>) in open cast coal mining area and its Health Impact. 17<sup>th</sup> convention of the Indian Geological Congress and International Conference on New Paradigm of Exploration and Sustainable Mineral development: Vision 2025 (NPESMD), pp 437-444, Nov 10-12, 2011.
8. Bhawna Dubey and Asim Kumar Pal and Gurdeep Singh. Assessment of Air Pollution in open cast coal mining area and its environmental impact. National Seminar on Mining Equipment: New Technologies, Challenges and Applications (MENTCA), ISM, Dhanbad, 19-21 Jan, 2012, pp 55-65.
9. Pal Asim Kumar. Ergonomic Issues in Mining. 34<sup>th</sup> International Conference of Safety in Mines Research Institutes, Organisedby IIT Kharagpur at India Habitat Centre, New Delhi during 7-10 Dec, 2011.

10. Pal Asim Kumar. Noise Management in a Bauxite Mine in India. 34<sup>th</sup> International Conference of Safety in Mines Research Institutes, Organised by IIT Kharagpur at India Habitat Centre, New Delhi during 7-10 Dec, 2011.
11. Bhawna Dubey, Asim Kumar Pal and Gurdeep Singh. Sources of particulate pollution in coal mining areas: identification and Characterization. Third International Conference on Climate Change, Forest Resource and Environment (ICCFRE) and Sixth National Congress, 9-10 Dec., 2011.
12. Bhawna Dubey, Asim Kumar Pal and Gurdeep Singh. Air borne fungal spores in the atmosphere of coal mining area, Jharkhand, India. International Conference on Mycology and Plant Pathology Biotechnological approaches (ICMPB-2012), organized at BHU, Varanasi during February 27-29, 2012.
13. Bhawna Dubey, Asim Kumar Pal and Gurdeep Singh. Evaluation of Air Quality, its composition in the industrial district of Jharkhand, India in an annual period. National seminar on Environmental Concerns and Sustainable Development: Issues and Challenges for India, organized at BHU, Varanasi during 2-4 March, 2012.
14. Bhawna Dubey, Asim Kumar Pal and Gurdeep Singh. Air Pollution in opencast coal mining area (Jharia coalfield), Jharkhand, India. National Conference on Issues and Challenges of River Ganga basin Management, organized by Centre for Environmental Science & Technology, BHU, Varanasi during 26-28 March, 2012.
15. A K Pal. Dust and Noise Problems in Opencast Drilling and their Management. Proc. of National Seminar Drills & Drilling – An Update (D & DU 2010), 23-24 Sept, 2010, Organised by Dept of ME & MME, ISM Dhanbad.
16. Jai Prakash, Gurdeep Singh and A.K. Pal. Air Pollution dispersion modelling for mining complex and model performance evaluation. International conferences on Recent Advances in Environmental Protection (RAEP 2009), organised at St John's College, Agra during December 15-20, 2009.
17. Suman, Gurdeep Singh and A.K. Pal. Fluoride and Human Health: A case study in Angul, Orissa. Proc. of International Conference on Environment, Occupational and Lifestyle Concerns – Transdisciplinary Approach, 16-19 Sept, 2009, Bangalore.
18. Suman, Gurdeep Singh and A.K. Pal. Study of Fluoride pollution in air around NALCO Aluminium Smelter in Angul, Orissa (India). Proc. of International Symposium on ISEPEHH-2009, 25-27 July, 2009, S.V. University, Tirupati.
19. Bhawna Dubey, Asim Kumar Pal and Gurdeep Singh. Seasonal variation of SPM, RPM, SO<sub>2</sub>, NO<sub>x</sub> concentrations in JCF, Jharkhand. Proc. of International Conference on ICME-2010, 13-16 Feb, 2010, University of Burdwan.
20. Bhawna Dubey, Asim Kumar Pal and Gurdeep Singh. Ambient air quality status of some selected areas of Jharia Coalfield. Proc. of International Conference on RAEST, 2-4 Nov, 2009, BHU, Varanasi.

21. A K Pal. Safety aspects when working in noisy environment. Proc. of International Workshop on Winning Strategies to Revitalize the Mineral/Coal Sector (WSRMS -2009), 8-9 Aug, 2009, NIT Surathkal, Karnataka.
22. Raju, E V R and Pal, A K. Need-based Post-Mining Land-Use Planning Strategies for a degraded Indian Coalfield. 1<sup>st</sup> International Conference on Managing the Social and Environmental Consequences of Coal Mining in India, organized by Indian School of Mines University in association with University of New South Wales and The Australian National University at India International Centre, New Delhi during 19<sup>th</sup> to 21<sup>st</sup> November 2007.
23. Singh, Gurdeep., Pal, Asim Kumar and Tiwari, Anurag. Air Pollution and its Impact on Social Spectrum with special reference to Korba coalfield of Chhattisgarh, India. 1<sup>st</sup> International Conference on Managing the Social and Environmental Consequences of Coal Mining in India, organized by Indian School of Mines University in association with University of New South Wales and The Australian National University at India International Centre, New Delhi during 19<sup>th</sup> to 21<sup>st</sup> November 2007.
24. Pal A K. Noise Management in Coal mining Areas. 1<sup>st</sup> International Conference on Managing the Social and Environmental Consequences of Coal Mining in India, organized by Indian School of Mines University in association with University of New South Wales and The Australian National University at India International Centre, New Delhi during 19<sup>th</sup> to 21<sup>st</sup> November 2007.
25. Suman., Roy, Papiya., Pal, A K and Singh, Gurdeep. Assessment of Air quality Status in Angul – Talcher coal mining area in Orissa. 1<sup>st</sup> International Conference on Managing the Social and Environmental Consequences of Coal Mining in India, organized by Indian School of Mines University in association with University of New South Wales and The Australian National University at India International Centre, New Delhi during 19<sup>th</sup> to 21<sup>st</sup> November 2007.
26. Pal, A.K and Mukhopadhyaya, A. K. Noise problems and its Control in the NALCO Bauxite Mine in India. National Seminar on Conditional Monitoring Overview & Advanced Techniques (COMOAT-06), organised by Department of ME & MME, ISM, Dhanbad during September 15 & 16, 2006, pp 329-343.
27. Pal, A.K., Mishra, B.P. and Roul, A.K. Noise Modelling in highly mechanised Bauxite Mines – A case study at Panchpatmali Bauxite Mines of NALCO. Proceedings of the International Seminar on Mineral Processing Technology and INDO-Korean Workshop on Resource Recycling, jointly organised by Indian Institute of Mineral Engineers and National Metallurgical Laboratory, TATA Steel at Chennai during March 8-10, 2006, pp 415-430.
28. Pal, A.K. Environmental Management in Mining Complexes – An overview. National Seminar on Management in the New Global Order – Quest for Excellence, Organised by Department of Management Studies, ISM, Dhanbad during February 24 & 25, 2006.
29. Pal, A.K. Community Development/Rehabilitation and Resettlement activities in Coal Mining areas.. National Seminar on Management in the New Global Order – Quest for Excellence, Organised by Department of Management Studies, ISM, Dhanbad during February 24 & 25, 2006
30. Gorai, A K., A K Mukhopadh and A K Pal. 2005. Cost-Benefit Analysis of Noise Management Programme in Mining Industries. International Symposium on Advances in Mining Technology and Management, organised at IIT Kharagpur during November 30-December 2, 2005.
31. Pal, A K. 2005. Ergonomics Application to the Problems of Occupational Safety and Health in Mining. International Symposium on Advances in Mining Technology and Management, organised at IIT Kharagpur during November 30-December 2, 2005.
32. Gorai, A K., A K Mukhopadh and A K Pal. 2005. Noise emission levels in an Iron Ore mine and its processing plants. Proceedings of National Conference on Technological Advancements and Environmental Challenges in mining and Allied Industries in the 21<sup>st</sup> century (TECMAC-2005) organised at NIT Rourkella during Feb 5-6, 2005.



33. Roul, A K., A K Gorai and A K Pal.2005. Workplace noise status of NALCO Bauxite Ore Processing Plant. Proceeding of International Seminar on Mineral Processing Technology (MPT-2005), organised at ISM during January 6-8, 2005
34. Kumar Rajesh., Gurdeep Singh and A K Pal. 2005. Assessment of Impact of Coal and Minerals related industrial activities in Korba Industrial belt of Chhattisgarh through Spectroscopic technique. Proceeding of International Seminar on Mineral Processing Technology (MPT-2005), organised at ISM during January 6-8, 2005
35. Pal, A.K.. Investigation in the causes of Occupational Health Problems in Mining Sector. National Seminar on Health and Safety in Mining Operations, organized during 26-27 September,2000 by WCL.
36. Pal, A.K. Ergonomics in Mining. National Seminar on Health and Safety in Mining Operations, organized during 26-27 September,2000 by WCL
37. Pal, A.K.; V.Kumar; and N.C.Saxena. Noise attenuation through green belt - a case discussion. 7th National Symposium on Environment, held at Indian School of Mines, Dhanbad, 5th to 7th Feb. 1998.
38. Pal, A.K.; S.Ghosh; and N.C.Saxena. Noise status in coal mining complexes, 7th National Symposium on Environment, held at Indian School of Mines, Dhanbad, 5-7th Feb., 1998.
39. Pal, A.K.; Y.Mishra; S.Mitra and N.C.Saxena. Noise model for mining complex - a case discussion, Second World Mining Congress, Katowice, Poland, 13-16 May, 1997.
40. Saxena, N.C.; A.K.Pal; B.K.Prusti and P.Kumar. Quality of living in two mining complexes in India, Second World Mining Congress, Katowice, Poland, 13-16 May, 1997.
41. Pal, A.K.. Noise is a source of inconvenience to Human being, Symposium on geology and environment, St. Columbus College, Hazaribagh, 6-7 April, 1997.
42. Pal, A.K.; and N.C.Saxena. Noise problems in coal mining complex - A case discussion. Fifth National Symposium on Environment, Saha Institute of Nuclear Physics, Calcutta, Feb. 28 - March 1, 1996.
43. Pal, A.K.. Noise Pollution Impact Prediction and Assessment in Mines, Seminar on Environment Awareness on the occasion of World Environment Day 5th June, 1996 at J.R.D. Tata Auditorium, Tata Steel, Jharia division.
44. Pal, A.K., G, Kumar and S. Ghosh. Noise status in Phosphatic Fertilizer Project of Pyrites, Phosphates and Chemical (PPCL) Ltd., Amjhore - A case discussion. VIII National Convention of Mining Engineers, organised by the Institute of Engineers (I) at Udaipur, Nov. 24-26, 1995.
45. Pal, A.K., M.N.Tarafdar, T. Sarkar, T.K.Sinha and S. Ghosh. Environmental status at Dhanbad Town. 1st Annual Congress of NGO's on role of NGO's in the Conservation of Environment, National Environmental Science Academy, New Delhi, August 19-20, 1995.
46. Pal, A.K., P.K.Singh and H. Mitra. Noise pollution in Cement Plant and Control Measures - A case discussion. International Conference on Environmental Issues in Minerals and Energy Industry at New Delhi, Oct. 24-26, 1994.
47. Pal, A.K., A.K. Tripathy and H. Mitra. Whole Body Vibration problems in surface coal mines - A case discussion. 2<sup>nd</sup> National Seminar on Minerals and Ecology, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi, 7-8 Jan. 1994.
48. Pal, A.K. and H. Mitra. Noise Pollution in Mines - Its monitoring and abatement with reference to underground mines. International Conference on Mineral Development and Environment at ISM, Nov. 28-30, 1991.
49. Sinha, D.K. and Pal, A.K. Ergonomics as a Productivity and Safety Improvement Tool - with case studies in deep underground mine. International Symposium on Ergonomics, Occupational Health, Safety and Environment, held in Bombay on Jan. 2-6, 1991 by Indian Society of Ergonomics.

50. Sinha, D.K. and Pal, A.K. A Study of Human Physiological Effects of Work System in underground mining environment.. International Conference of Indian Bureau of Mining Thermophysics (IBMT) , organised by Mining, Geological & Metallurgical Institute of India, Feb. 1988.

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