

LIST OF PUBLICATIONS

LIST OF RESEARCH PUBLICATIONS IN INTERNATIONAL/NATIONAL JOURNAL

1. **Mishra, A. K.**, 2009, Innovative Changes in Mining Using Digital Blasting Technology, *Journal of Mines, Metals & Fuels*, Vol. 57, Nos. 3&4, pp 102-108.
2. **Mishra, A. K.**, (2006), Blasting Technology in New Era, *The Indian Mining Engineering Journal*, Vol. 45, No. 1, pp 28-34.
3. **Mishra, A. K.**, (2005), Blasting in Surface Coal Mines Over Developed Pillars, *minetech*, Vol. 26, No. 5, pp 18-24.
4. Dewangan, P., and **Mishra, A. K.**, (2005), Influence of Moisture Content on Seismic Wave Propagation Through Rocks, *Mining Engineer's Journal*, Vol. 7, No. 3, pp 21-24.
5. **Mishra, A. K.** and Bhattacharya, D., (2005), An Innovative Priming System-Emulsion Based Cast Booster, *Fragblast The International Journal for Blasting and Fragmentation*, Vol. 9, No. 1, pp 47- 59.
6. **Mishra, A. K.** and Mohan, A., (2005), Can We Handle Misfires in Surface Mines....?, *Journal of Mines, Metals & Fuels*, Vol. 53, No.9, pp 154-155.
7. **Mishra, A.K.**, and Mishra, V. K., (2005), Mass Production Technology in Underground Mines, *minetech*, Volume 26, No.1, pp 3 -14.
8. **Mishra, A. K.**, Balamadeswaran, P., (2004), Digital Detonators – A Revolutionary Initiating System, *Journal of Mines, Metals & Fuels*, Volume 52, No.11, pp 278-283.
9. **Mishra, A. K.**, Balamadeswaran, P., Bhussan, V., and Gupta, R.N., (2004), Shock Tube Initiation System for Improving Pull in Tunnels, *Journal of Rock Mechanics and Tunnelling Technology*, Volume 10, No.2, pp 117-127.
10. Balamadeswaran, P., Sen, P., and **Mishra A. K.**, (2004), Blasting Practices in Indian Dragline Benches-A Review, *minetech*, Volume 25, No. 4, pp 36-45.
11. **Mishra, A.K.**, and Balamadeswaran, P., (2004), Conveying Technology in 21st Century, *Mining Engineer's Journal*, Volume-5, No.10, pp.12-22.
12. **Mishra, A.K.**, (2003), Environmental Impacts of Blasting and Mitigating Measures – Experience in Indian Surface Coal Mines, *ERZMETALL*, GDMB, Germany, Volume.56, No.12, pp.724 -730.
13. **Mishra, A.K.**, (2004), Blasting Technology in 21st Century, *minetech*, Volume 25, No.1, pp 44 -52.
14. Singh, G.S.P, and **Mishra, A. K.**, (2004), A Review of In-situ Stress Measurement Techniques, *The Indian Mining & Engineering Journal*, Vo.43, No.1, pp.11-16.
15. **Mishra, A.K.**, Balamadeswaran, P., and Sen, Phalguni, (2003), An Approach to Eco-Blasting for Environmentally Sensitive areas – A Review, *Mining Engineer's Journal*, Volume-5, No.4, pp.17-23
16. **Mishra, A.K.**, (2003), Air Blast and Fly Rock – Avoidable Hazards of Blasting, *Mining Engineer's Journal*, Volume.4, No.12, pp.11-18.
17. **Mishra, A. K.**, 1998, An Index for Toughness Characteristics of fibre reinforced shotcrete support, *The Indian Mining and Engineering Journal*, Vol.37, No.9.

18. Singh, U. K. and **Mishra, A. K.**, 1995, Fibre reinforced shotcrete support for underground opening and fibre characterisation: *The Indian Mining and Engineering Journal* , Vol.34, No.10.

List of research publications in International/National Symposia/ Seminars/ Conferences/Workshops

1. **Mishra, A. K.**, 2008, Development of Emulsion Based Permitted Explosives for BG Mining Method, Proc. Of Coal Conference on “Challenges of Rapid Expansion of Underground Mining”, MGMI Delhi, 17th Oct. 2008.
2. **Mishra, A. K.**, 2008, Safety Engineering in Mine Blasting Operations, Proc. Of Course on “Safe Mining: Methods, Design and Technology” , IIT, Kharagpur, 2-3rd Dec 2008.
3. **Mishra, A. K.**, 2008, Development of Emulsion Based Permitted Explosives for BG Mining Method, Proc. Of Coal Conference on “Challenges of Rapid Expansion of Underground Mining”. 17th Oct, MGMI Delhi Chapter, Delhi.
4. **Mishra, A. K.**, Kumar A., Bhushan, B., and Roy, A., 2008, Underground Bulk: An Innovative Approach in Underground Excavations, Proc. Of National Seminar on Rock-Machine Interaction in Excavations, IT-BHU, 7-8th March, pp 213-217.
5. **Mishra, A. K.**, Kumar A., and Nizami A. A., (2008), Digital Blasting Technology, Proc. Of the Conf. on Emerging Trends in Mining and Allied Industries, 2-3rd Feb, NIT Rourkela, pp 80-92.
6. **Mishra, A. K.**, (2007), Emerging Blasting Technology and Blast Based Services, Proceedings of The 2nd Coal Summit 2007, 10-11th Dec. 2007, Ministry of Coal, New Delhi, pp 148-154.
7. **Mishra, A. K.**, (2007), Blasting Technology Advances So Far, Proc. Of Workshop on Mining Advancements, 1st Nov., NCL.
8. **Mishra, A.K.**, and S. Niwash, (2006), Blasting Technology in New Era, Proceedings of National Seminar on Mining & Processing of Stone & Minerals for Buildings, 12-13th Aug, Jodhpur, MEAI, pp 189-199.
9. **Mishra, A. K.**, (2006), Safety in Manufacturing, Transportation and Usage of Bulk Explosives and Initiating Systems, Proceedings of National Workshop on **Safe Possession, Transport and Handling of Explosives**, Asansol, July 20th 2006, PESO & ECL.
10. **Mishra, A. K.**, and Kumar, Amit, (2006), Survival of BG Mining Methods with Emulsion Based Explosives, Proceedings of National Workshop and Brain Storming Session on Mechanisation of Underground Coal Mines- Challenges and Technical Options, 27-28th April, 2006, Bilaspur, DGMS & SECL, pp 142-146.
11. **Mishra, A. K.**, (2006), Drilling and Blasting – Latest Developments in Technology, Proceedings of International Conference of 5th Coaltrans India 2006, March 5-7th, New Delhi, Coaltrans Conferences UK.
12. Roy, A., and **Mishra, A. K.**, (2006), Underground Bulk Explosives – An Innovative Approach in Underground Blasting, Proceedings of National Seminar on Underground Metal Mining: Status & Prospects (UMMSP-2006), ISM, Feb 13-14.

13. **Mishra, A. K.**, (2005), Innovative Initiation Systems-Digital Detonators, Proceedings of International Symposium on Advances in Mining Technology and Management, IIT Kharagpur, Nov 30-Dec 2.
14. **Mishra, A. K.**, (2005), New Developments in Surface Mine Blasting , Workshop on New and Innovative Mining Techniques for Indian Coal Industry, 12-14 August, Kolkata, Journal of Mines, Metals and Fuels & Indian Institute of Coal Management, Ranchi,
15. Gupta, R. N., and **Mishra, A. K.**, (2005), Emulsion Based Cast Booster: An Innovative Priming System, Proc. Of the Thirty First Annual Conference on Explosives and Blasting Techniques, Volume I, February 6-9,2005, International Society of explosives Engineers, Orlando, Florida, USA, pp 365-378.
16. **Mishra, A. K.** and Mohan, A., (2005), Blast Efficiency Improvement Using Shock Tube Initiation System, Proc. Of First Indian Mineral Congress, Showcasing Mineral Industry in 21st Century, Jointly organized by ISMAA, CMRI, DGMS, Dhanbad, India, pp 321-332.
17. **Mishra, A. K.** and Mohan, A., (2005), A study of Shock tube Initiation System, Proc. Of Conference on Technological Advancements and environmental Challenges in Mining and Allied industries in the 21st Century(TECMAC-2005), Department of Mining Engineering, National Institute of Technology, Rourkela, India, pp 157-168.
18. Mishra, V. K., **Mishra, A. K.** and Pradhan, M., (2005), Mass Production Technology with Continuous Miner, Proc. Of Conference on Technological Advancements and environmental Challenges in Mining and Allied industries in the 21st Century(TECMAC-2005), Department of Mining Engineering, National Institute of Technology, Rourkela, India, pp 15-28.
19. **Mishra, A. K.**, and Gupta, R. N., (2004), Evaluation of Emulsion-Based Cast Booster As a Priming System, Proc. Of International Seminar on Technology Update in Mining and Mineral Industries, MEAI and Department of Mines & Geology, Govt. of Karnataka, Bangalore, India, pp 73 – 81.
20. **Mishra, A. K.**, and Bhattacharya, D., (2004), An Innovative Priming System – Emulsion Based Cast Booster, Proc. Of International Conference on Future of Indian Mineral Industry: Challenges and Opportunities, MGMI, Kolkata, India.
21. **Mishra, A. K.** and Gupta, R. N., 2002, Blast design using high resolution video camera: Proc. Of the 7th International Symposium on Rock Fragmentation by Blasting (FRAGBLAST7), Beijing, China..
22. **Mishra, A.K.** and Balamadeswaran, P., (2004), Blasting Practices in Environmentally Fragile Areas – An Approach, Proceedings of the National Seminar on Environmental Engineering with special emphasis *on* Mining Environment (NSEEME-2004), March 19~20, Dhanbad, Journal of Institution of Public Health Engineers, India, pp.118-125.
23. **Mishra, A.K.** and Balamadeswaran, P., (2004), Blast Design Approach for Better Fragmentation in Surface Coal Mines, Proceedings of National Seminar on Rock Fragmentation (NSRF-2004), Institute of Technology, Banaras Hindu University, January 23~24, Varanasi, pp.35-48.
24. **Mishra, A.K.** and Manish Sinha, (2003), Recent Developments in Blasting Technology, Proceedings Of National Conference on Showcasing Best Practices on Mines Safety, March 21~22,US Department of Labour, Ministry of Labour, GOI and DGMS, Jaipur.
25. **Mishra, A.K.**, Balamadeswaran, P., and Manish Sinha, (2003), Blasting over developed pillars, Proceedings Of National Workshop on Reinventing Jharia Coalfield, August 22~23, MGMI, Dhanbad.

26. **Mishra, A.K.**, (2003), Blast Design for Environmentally Sensitive Opencast Coalmines, Proceedings Of International Seminar on Emerging Challenges in Mining Industry (ECMI-2003), September 26~27, MGMI, Kolkata, India, pp.101-110.
27. **Mishra, A.K.** and P.R.Sinha, (2003), VOD Measurement Techniques – A Review, Proceedings of National Seminar on Explosives and Blasting, Institution of Engineers (India), December 06~07, Dhanbad, pp.43-52.
28. Kavindra Kumar and **Mishra, A.K.**, (2003), Automatic Image Analysis Technique: An Effective Tool for Fragmentation Assessment, Proceedings of National Seminar on Explosives and Blasting, Institution of Engineers (India), December 06~07, Dhanbad, pp.99-107.
29. **Mishra, A.K.** and Balamadeswaran, P., (2003), Fly rock Hazards in Open pit mine Blasting, Proceedings of National Seminar on Explosives and Blasting, Institution of Engineers (India), December 06~07, Dhanbad, pp.108-117.
30. **Mishra, A. K.** and Gupta, R.N., 2001, A New Approach of Blast Design: Proc. Of National Seminar on Rock Excavation Techniques (RockEx2001),IMEJ, 21-22, Sept.,2001, Bhubaneswar, pp. 40-44.
31. **Mishra, A. K.** and Gupta, R. N., 2001, An Initiation System for Reduction of Environmental Impacts in Open Pit Blasting, Proc. Of The National Seminar on Mine Ventilation, Safety and environment VSE-2001, 29-30, Nov., 2001, CMRI, Dhanbad, 329-342.
32. **Mishra, A. K.** and Gupta, R. N., 2001, New approach of precision blasting: Proc. of National Seminar on Rock Fragmentation, (ROCKFRAG - 01), IT, BHU, 14-15, February,2001,Varanasi, 58-64.
33. Dewangan, P., **Mishra, A. K.** and Gupta, R. N., 2001, Parameters influencing blast induced ground vibration - a review: Proc. of National Seminar on Rock Fragmentation, (ROCKFRAG - 01), IT, BHU, 14-15, February, 2001,Varanasi, 107-115.
34. **Mishra, A. K.** Gupta, R. N. and Behera, P. K., 2000, An investigation on reduction of environmental impact due to blasting using shock tube NONEL initiation system: Proc. Drill Blast'99, National Seminar on Drilling and Blasting for the Next Millennium, IMEJ,17-18, Jan., 2001, Bhubaneswar, 30-34.
35. Gupta, R. N. and **Mishra, A. K.**, 1998, An investigation of shock tube down the hole initiation system for reduction of ground vibration and air overpressure, Proc. of Visfotak'98, National Seminar on Explosives, DOE, Govt. of India, Nagpur, 147-154.
36. **Mishra, A. K.** and Gupta, R. N., 1998, Plasma blasting - An innovative tool for rock fragmentation, Proc. of National Seminar on Mining in 21st Century, IMEJ, Puri.
37. **Mishra, A. K.** and Singh, U. K., 1996, Effect of fibres on flexural strength and toughness characteristics of concrete, Proc. of National Conference on Ground Control in Mining, BHU, Varanasi.
38. **Mishra, A. K.** and Singh, U. K. 1995, Use of fibre reinforced shotcrete in underground mines: International Mining Technology'95, Beijing, China