Research Publications of Dr. D. P. Mishra

List of Research Publications in International/National Journals

1. **Mishra, D.P. and Das, S.K**. "A study of physico-chemical and mineralogical properties of Talcher coal fly ash for stowing in underground coal mines", International Journal of *Materials Characterization (under review)*.

2. **Das, S.K. and Mishra, D.P. (2008),** "Determination of physico-chemical properties of fly ash and pond ash of Talcher thermal power plant for stowing in the underground coal mines", *The Indian Mining & Engineering Journal*, April, Vol. 47 No. 04, pp. 10-17.

3. **Mishra, D.P. and Das, S.K. (2008),** "Consolidation characteristics of stowed pond ash and pond ash-lime mixture*", Journal of the Institute of Engineers (India)*, Vol. 89, August 25, pp. 9 – 18.

4. **Mishra, D.P. and Das, S.K. (2008),** "Characterization of fly ash and pond ash for stowing in the underground coal mines", *Minetech Journal*, Vol. 28, No. 2-3, April-Sept., pp. 45-57.

5. **Mishra, D.P. and Das, S.K. (2008), "**Compaction and consolidation behaviour of fly ash and pond ash for stowing in underground mines", *MGMI Transactions*, Vol. 104, No. 1&2, April 2007-March 2008, pp. 55-72.

6. **Mishra, D.P. and Das, S.K. (2007), "**Assessment of permeability characteristics of fly ash and fly ash-sand mixtures for stowing", *Mining Engineers' Journal*, Vol. 9, No. 4, November, pp. 9 – 14.

7. **Mishra, D.P. (2007),** "Fly ash stowing in India-an emerging technology", *Journal of Mines, Metals and Fuels*, Vol. 55, No. 5, May, pp. 156 – 160.

List of Research Publications in International/National Symposia/Seminars/Conferences

1. **Panigrahi, D.C., Mishra, D.P., Divaker, Ch. and Sibal, S.J. (2009),** "Application of fibreglass reinforced plastic blades in main mine ventilation fans: an innovative concept of energy saving", Proceedings of Ninth International Mine Ventilation Congress, 10-13 November, New Delhi, Vol. 2, Paper No. 67, pp. 709-715.

2. **Panigrahi, D.C., Mishra, D.P., Behera, P.K., Koley, Gora and Sharma, R.K. (2009),** "Modelling of effect of underground coal gasification on surface temperature", Proceedings of Ninth International Mine Ventilation Congress, 10-13 November, New Delhi, Vol. 2, Paper No. 97, pp. 1023-1030.

3. **Mishra, D.P. and Das, S.K. (2009)**, "Assessment of spontaneous heating characteristic of coal combustion by-products for stowing in underground coal mines", Proceedings, Symposium on New Equipment New Technology Management and Safety in Mines and Mineral Based Industries (ENTMS-2009), 11-12 May, Bhubaneswar.

4. **Panigrahi, D.C., Mishra, D.P. (2008)** "Innovative concept of energy saving by using FRP blades in axial flow fans: a joint study of ISMU, Tata Steel and ENCON", Proceedings of the National Seminar on Policies, Statutes and Legislation in Mines (POSTALE 2008), 20-21 December, Central Institute of Mining and Fuel Research, Dhanbad, pp. 55-59.

5. **Panigrahi, D.C., Mishra, D.P., Behera, P.K., Singh, A.P. and Kumar, A. (2008),** "Determination of thermal conductivity of soil and rock samples using microprocessor based equipment", in Proc. Frontiers in Electronics, Communication, Instrumentation and Information Technology (FECIIT-08), pp. 372 – 378.

6. **Mishra, D.P. and Das, S.K. (2008),** "Compaction and consolidation behaviour of fly ash and pond ash for stowing in underground mines, Proc. of 8th International Scientific Conference SGEM 2008 on Modern Management of Mine Producing, Geology and Environmental Protection, 16-20 June, Albena, Bulgaria.

7. **Mishra, D.P. and Das, S.K. (2008),** "Geotechnical properties of fly ash for underground mine stowing", Proc. of the Geominetech Symposium on New Equipment-New Technology Management and Safety in Mines and Mineral Based Industries (ENTMS 2008), 11-12 May, Bhubaneswar, India, pp. 121 – 126.

8. **Mishra, D.P. and Das, S.K. (2008),** "Application of flocculant in pond ash stowing for improving water drainage-a model study", Proceedings of Indo-Korean Joint International Symposium on Geo-Science and Technology, 12-14 February, Dept. of Mining Engineering, IIT Kharagpur, pp. 188 – 201.

9. **Mishra, D.P. and Das, S.K. (2008),** "Suitability of Pond Ash Slurry for Stowing in Underground Mines-A Model Study", Proc. of the Conference on *Emerging Trends in Mining and Allied Industries (ETMAI - 2008)*, February 2–3, Dept. of Mining Engineering, NIT Rourkela, pp. 284 – 295.

10. **Mishra, D.P. and Das, S.K. (2007), "**Fly ash stowing in India-a future perspective", Souvenir, Indian Mining Congress on Emerging Trends in Mineral Industry, 13-15 July, Mining Engineers' Association of India National Headquarters and Rajasthan Chapter, pp. 279 – 284.

11. **Mishra, D.P. and Das, S.K. (2006), "**Chemical and morphological characterization of fly ash for stowing in the underground coal mines", National Seminar on Underground Coal Mining & Expo-2006, Indian School of Mines, Dhanbad, November 9-10, pp. 143 – 149.

12. **Kumar, H., Mishra, D.P. and Das S.K. (2006),** "Settling characteristics of fly ash of Talcher Thermal Power Station", Published in 1st Asian Mining Congress, 16 – 18 January, MGMI, Kolkata, pp. 135 – 139.

13. **Mishra, D.P., Kumar, H. and Das, S.K. (2005),** "A study of Rheological properties of fly ash slurries of Talcher Thermal Power Station for stowing in the underground coal mines" Proc. International Symposium on Advances in Mining Technology and Management, Nov 30-Dec2, Dept. of Mining Engineering, IIT, Kharagpur, pp. 495 - 503.