

Bijay Mihir Kunar [B.E, M.E, Ph.D. (IITKGP)]

Summary

Dr. B.M. Kunar has joined in the Department of Mining Engineering NITK Surathkal on 23rd September 2013. Prior to join NITK Surathkal, he worked as an **Assistant Professor in the Department of Mining Engineering Indian School of Mines (ISM), Dhanbad & Scientist at National Institute of Rock Mechanics (NIRM), Bangalore**. He joined Dungri Limestone Quarry of M/s ACC Limited in March 2003 and worked there for the period of one and half year. He obtained **Second Class Metal Mine Manager (Restricted) Certificate of Competency of the Govt. of India** in 2004. He completed his B.E (Mining) from Orissa School of Mining Engineering, Keonjhar, M.E. (Mining) from Bengal Engineering and Science University Shibpur and Ph.D. in Mining Engineering (Mine Safety) from Indian Institute of Technology (IITKgp) Kharagpur. His area of specialization is **mine safety management (which includes risk assessment and management of mine hazards, behavioural based safety and injury epidemiology), Advance Mine Surveying, and Statistical Data Analysis**. He has published more than 30 technical research papers in various reputed International Journal having high impact factor, National Journal and Seminar proceedings. He was associated with the French National Institute for Health and Medical Research (INSERM, France) on an epidemiological study to assess the relationships between job, lifestyle, age and occupational injuries of coal miners. Dr. Kunar also worked as a Research Assistant in the Department of Mining Engineering IIT Kharagpur from July 2008 to September 2008 in a Project entitled "Investigation of Ensemble Modelling of Multiple Networks Using Negative Correlation Learning for Ore body Modelling" sponsored by ISIRD. He has successfully completed two sponsored project as an investigators. He has authored a book titled "Risk analysis of coal miners injuries: An Epidemiological Approach" by LAP Lambert Academic publishing AG & Co.KG, Germany. He is having wide experience in working funded research projects, preparation of proposals and technical reports. He is actively involved in teaching and research for more than 5 years in research lab and academic institute. While he was working as a faculty in the Department of Mining Engineering Indian School of Mines Dhanbad during the period (2009-2013) he was associated with teaching undergraduate and postgraduate students. He has guided several B.Tech and M.Tech dissertation work. Apart from teaching he was associated with different Executive Development programs (EDP), R&D (Research & Development) and consultancy projects. He was also handled different administrative responsibility such as faculty in-charge mining engineering society, faculty in-charge CLMM Lab, faculty adviser of final year students and other administrative responsibility successfully. He is a recipient of various awards, prizes and other honours for his contribution to mining engineering.

CURRICULUM –VITAE

Name Date of Birth Correspondence	Dr. Bijay Mihir Kunar 15th March 1976 Department of Mining Engineering National Institute of Technology Karnataka, Surathkal, Mangalore Phone No: + 91 + 824 + 2473051 (O) Fax: + 91 + 824 + 2474033, 2474039 Email: bijaykunar@yahoo.com bkunar@gmail.com web: www.nitk.ac.in
Marital Status	Married
Present Employment	Presently working as Assistant professor, Deptt. of Mining Engineering, National Institute of Technology, Karnataka, Surathkal, Mangalore
Research Areas	Mine Safety Engineering and Management, Occupational Health and Safety, Injury Epidemiology, Applied Mine Surveying.
Research Interest	GIS and Remote sensing, Statistical data analysis, Rock Mechanics, Computer application in mining.

Academic Performance Details

Degree/Examination	University/Institution	Year	Discipline	% of Marks	Division/ Class
Ph.D. (Mining Engineering)	I.I.T Kharagpur	2009	Mining Engineering	-	-
M.Tech./M.E.	B.E College (D.U)	2003	Mining Engineering	75.78	1st
B.Tech./B.E.	Orissa School of Mining Engineering, Keonjhar, (A constituent college of BPUT Orissa)	2001	Mining Engineering	72.69	1st
H.S. or Equivalent (+2 Science)	S.V.M College, Jagatsinghpur C.H.S.E Orissa	1994	+2 Science	70.55	1st
Madhyamik /Matric or Equivalent	S.K. Academy Jagatsinghpur B.O.S.E Orissa	1992	-	72.13	1st
BSc	S.V.M College, Jagatsinghpur Utkal University	1997	+3 Science (Phy Hons)	-	-

Awards / Prizes/Honours Won

- ❖ **Second Class Managers' Certificate of Competency (Restricted)** from **Directorate General of Mines Safety**, Govt. of India.
- ❖ Recipient of the "**Hindustan Zinc Limited Prize**" by the Institution of Engineers (INDIA) for the best technical research paper.
- ❖ Awarded **SRF Fellowship** from MHRD Govt. of India during July 2004 to April 2007 for carrying out Ph.D. at IIT Kharagpur.
- ❖ Recipient of NRTS and National Merit Scholarships

Teaching and Research Experience

ORGANIZATION	DESIGNATION	DURATION
NITK Surathkal	Assistant Professor	23.09.2013 to till Date (with AGP-8000/-)
ISM Dhanbad	Assistant Professor	From 22.06.2010 – 13.09.2013 (with AGP-8000/-)
ISM Dhanbad	Assistant Professor	15.06.2009 -22.06.2010 (with AGP-7000/-)
National Institute of Rock Mechanics (NIRM), Under Ministry of Mines Govt. of India	Scientist-I	October 2008 to June 2009. (with AGP-5400/-)
IIT Kharagpur	Research Assistant	July 2008 to September 2008 (With award of fellowship)

Working and Training Experience

ORGANIZATION	DESIGNATION	DURATION
Dungri Limestone Quarry of Baragarh Cement LTD (A subsidiary of M/S Associate Cement Company Limited)	Mining Engineer	March 2003-June 2004
Central Mining Research Institute Dhanbad (An Unit of Council of Scientific and Industrial Research, India).	Project Trainee	September'02 – January'03
JODA EAST IRON MINES OF M/S TISCO LTD.	Trainee	One month
DEULIBERA COLLIERY OF M.C.L(A SUBSIDIARY OF COAL INDIA LTD)	Trainee	One month
GURPAHAR MINES OF M/S B.S.L CO. LTD	Trainee	One month

Peer Reviewer of Referred Journals

- Associate Editor in journal of "Geoscience Research" Bioinfo Publications Editorials.
- Associate Editor in journal of "Ecology and Environmental Sciences" Bioinfo Publications Editorials.
- Arabian Journal of Geosciences (Springer)
- Sadhana-Academy proceedings (Springer)
- Science Journal of Environmental Engineering
- Asian Journal of Water, Environment and pollution

Member of Professional Bodies

- Life member of Society of Geoscientists and Allied Technologists (MSGAT).

Organizing Seminar/Symposium/ Workshop

- Organizing and Technical Committee member of the International mine ventilation congress held in the year 2009 (9th IMVC) at ISM Dhanbad.
- Technical Committee member of 34th International conference of safety in mines research institutes (34th ICSMRI) held in the year 2011 at IIT Kharagpur.

Books Authored

Bhattacharjee A, **Kunar, B.M.** 2010 "Risk analysis of coal miners injuries: An Epidemiological Approach"
LAP Lambert Academic Publishing AG & Co. KG, Germany, ISBN: 978-3-8383-4263-4.

Personal Details

Father's Name: Mr. Jogendranath Kunar

Passport number: G1145913

Permanent Address:

Dr. Bijay Mihir Kunar

C/o: Mr. Jogendranath Kunar

At: Jogadhari (Near District Circuit House)

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Phone: 06724-220883

DECLARATION:

I hereby affirm that the information furnished in this resume is true and correct.

Date: 15th January 2014

Place: NITK Surathkal

(Bijay Mihir Kunar)

Paper Publications

JOURNALS

a) International Journals

- **Kunar, B.M.,** Bhattacharjee, A., Chau N. (2008). "Relationships of job hazards, lack of knowledge, alcohol use, health status and risk taking behaviour to work injuries of underground coal miners: A case-control study in India" " *Journal of Occupational Health, Japan*" 2008, Vol. 50 (3), pp.236-244.
- **Kunar B.M.,** Bhattacharjee A., Chau N. (2010). "A matched case-control study of occupational injury in underground coalmine workers" The *Journal of the South African Institute of Mining and Metallurgy (SAIMM Journal)*, Vol. 110, pp. 1-9.
- Chau N., Bhattacharjee A., **Kunar B.M.,** Lorhandicap group (2009). "Relationship between job, lifestyle, age and occupational injuries" *Occupational Medicine*, London, 2009, Vol. 59, pp.114 - 119.
- Bhattacharjee A., **Kunar B.M.** (2011). "Epidemiology: A tool for risk analysis of mine injuries" *Transactions of the Society of Mining, Metallurgy, and Engineering (SME)* USA, 2011, Vol. 328, pp. 490-500.
- Bhattacharjee A., **Kunar B.M.,** Baumann Michele, Chau N, Lorhandicap group (2013). "The role of occupational activities and work environment in occupational injury and interplay of personal factors in various age groups among Indian and French coal miners" *International Journal of Occupational Medicine and Environmental Health* 2013; Vol. 26(6), pp.1-20.
- **Kunar B.M.,** Bhattacharjee A., Samanta B (2014). "Relationships of Individual and work related factors with obstructive type lung function disorder of underground coal miners-A Spirometry study" *The Linacre Quarterly (under Review)*.

b) National Journals

- **Kunar, B.M.,** Bhattacharjee, A (2006) "Study of some occupational and individual factors in coal miners injuries" *Journal of Mines, Metals and Fuels*, 2006, Vol. 54, No.12. pp. 356-360.
- **Kunar B.M.,** Maiti J., Mandal P.K. (2007) "Numerical modeling – A Prerequisite for Support Design in Mines" "*Journal of Mine Tech*", January-March, 2007, Vol. 28 (1), pp. 19-28.
- Maiti, J., Mandal, P.K., Singh, R., **Kunar B.M.** (2006) "Impact of Stress Redistribution on Stability of Workings during Depillaring" *Journal of the Institution of Engineers (India)*, Mining Engineering Division, 2006, Vol. 87, PP. 10-22.

Conferences/Seminar/Symposia/workshop

- **Kunar B.M.,** Mudgal Keshav, Gupta Neel, Kumar S., (2012): "Development of a GIS based 3-dimensional spatial information system-A case study", Proceedings of the 2nd National Seminar on

"Indian Conference on Mine Surveying (ICMS-2012)" hosted by Indian School of Mines, 29-30 October, 2012, Dhanbad, pp.101-109.

- D. Kumar, V. Agarwal, **Kunar B.M., (2012)**: "Study of opencast coal mines for land reclamation using Remote sensing and GIS technique", Proceedings of the 2nd National Seminar on "Indian Conference on Mine Surveying (ICMS-2012)" hosted by Indian School of Mines, 29-30 October, 2012, Dhanbad, pp.71-77.
- **Kunar, B.M.,** Bhattacharjee, A., Samanta B, Shahid M., **(2011)**: "Relationships of some individual and work related factors to lung function disorder of underground coal miners- A Spirometry study" In: Bhattacharjee et al, (Ed.), "Safety in Mines (34th ICSMRI)", Macmillan, New Delhi, India, pp.785-795.
- Bhattacharjee, A., **Kunar, B.M.,** Baumann, M., Chau, N., Lorhandicap group **(2011)**: "Associations between occupational factors and occupational injury and the interplay of personal factors in India and French coal miners" In: Bhattacharjee et al, (Ed.), "Safety in Mines (34th ICSMRI)", Macmillan, New Delhi, India, pp.481-493.
- **Kunar, B.M.,** Kumar, P.P., (2011): "Risk assessment and safety evaluation in underground metal mines" Proceedings of the 2nd National Seminar on "Underground Metal Mining: Status and Prospects" hosted by Indian School of Mines, 13-15 October, 2011, Puri, pp.329-335.
- **Kunar, B.M.,** Shukla G., Bahuguna P.P (2010) "Gradual Development of Total Station into Complete Mine Surveying Instruments" Proceedings of the Tenth Geo-minetech Symposium on " New Equipment New Technology Management and Safety in Mines and Mineral Based Industries" 11-12 May, 2010, Bhubaneswar, The Indian Mining Engineering Journal, pp.136-140.
- Bhattacharjee, A., **Kunar, B.M. (2010)**: "Risk Analysis of Injuries of Coal Miners Using an Epidemiological Approach: A Case-Control Study" Proceedings of the 5th China International Forum on Work Safety, hosted by State Administration of Work Safety (SAWS), P. R. Chin, 1-3 September, 2010, pp.20-27.
- Bhattacharjee A., **Kunar B.M.,** Chau N., **(2009)**: "Role of working condition, behavioural, lifestyle and health related factors in underground coal miners injuries: A case-control study" Proc 33rd Int Conf on Safety in Mines Research Institutes, organized by Central Mining Research Institute, Poland on 15-18 September 2009, Poland, pp.19-27.
- **Kunar B.M.,** Bhattacharjee A., **(2008)**: "Role of job hazards, overtime work, and individual habits to underground coal miners injuries-A case study" Proceedings of the National Seminar on "Environmental Management in Mining and Allied Industries (EMMA-2008)" 7-8 Nov, 2008, Varanasi, ITBHU, pp.35-38.
- **Kunar B.M., (2008)**: "Numerical modeling based study on development of support plan in depillaring operation of bord and pillar working" Proceedings of the Eighth Geo-minetech Symposium on " New Equipment New Technology Management and Safety in Mines and Mineral

Based Industries" 11-12 May, 2008, Bhubaneswar, The Indian Mining Engineering Journal, pp.132-135.

- **Kunar, B.M.,** Shahid M., Bhattacharjee, A., Samanta B **(2008)**: "A spirometry study of lung disorder for underground coal miners" Proceedings of the Indo-Korean joint International Symposium on "Geo-Science and Technology and Utilization of Geo-Space as Solution for Energy and Environment" , 12-14 February, 2008, Kharagpur, Indian Institute of Technology, pp. 70-74.
- Bhattacharjee, A., **Kunar, B.M.,** Chau N **(2007)**: "Contribution of physical hazards and health-related factors in occupational injuries of underground coal miners: A matched case-control study", Proceedings of the 32nd International Conference of Safety in Mines Research Institutes (SIMRI),Beijing, China, September 28-29, 2007, SAWS, China, pp.423-430.
- Bhattacharjee, A., **Kunar, B.M (2006)**: "Analysis of occupational injuries and health disorder of workers in mines: A case study", Proceedings of the 41st Annual Safety Week Souvenir, 2006, Singareni Coal Company limited and Directorate General of Mines Safety, pp. 46-53.
- Bhattacharjee, A., **Kunar, B.M. (2007)**: "Application of injury epidemiology in coal mines safety" Proceedings of the Emerging trends in mineral industry, 13-15July, 2007, Mining Engineers' Association of India, Udaipur, Rajasthan, pp. 228-233.
- Bhattacharjee, A., **Kunar, B.M.,** Sharan, M.B **(2006)**: "An epidemiological study of coal miners injuries" Proceedings of the First Asian Mining Congress on "Asian Mining –towards a new resurgence, January 16-18, 2006, MGMI, Kolkata, India pp. 473-477.
- Samanta B, Devulapally P, Bhattacharjee A, **Kunar B.M (2008)**: Work related musculo-skeletal disorder study on drilling operations in an underground coal mine through human factors approach, Proceedings of the National Seminar on "Environmental Management in Mining and Allied Industries (EMMA-2008)" 7-8 Nov, 2008, Varanasi, ITBHU, pp.40-44.