

1. Name : Dr. Rudra Pratap Singh
2. Date of Birth : 13 - 04 -1959
3. Current Position and Address : Sr. Principal Scientist and HOS:
Metallurgy, & HORG: Machine Health
Monitoring
(with E-mail & Phone no.) CSIR-CIMFR (HQ), Barwa Road,
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4. Educational qualifications: (Graduation and above)

Sl. No.	Degree/ Certificate	Year of Passing	University/ Institute	Subjects
i.	B.Sc.	1981	Gorakhpur University, Gorakhpur	Chemistry, Zoology Botany
ii.	M.Sc.	1985	Gorakhpur University	Chemistry
iii.	Ph.D.	1989	Ranchi University	Chemistry

5. Work experience

Sl. No.	Designation	Institution/company	From	To	Nature of work
1.	SCIENTIST B	CSIR-CIMFR, DHANBAD	23.10.1990	22.10.1995	R&D on control of mine fire and ventilation investigation & planning
2.	SCIENTIST C	CSIR-CIMFR, DHANBAD	23.10.1995	22.10.2000	-do-
3.	SCIENTIST E1	CSIR-CIMFR, DHANBAD	23.10.2005	22.10.2010	-do-
4.	SR. PRINCIPAL SCIENTIST	CSIR-CIMFR, DHANBAD	23.10.2010	Till date	R&D on control of mine fire and ventilation investigation & planning, metallography studies on mine appliances

6. Area of specialization : Control of fire, ventilation investigation & planning, metallographic studies of various mine appliances.

7. Honors/Awards received : Received best publication award (third prize) at CIMFR in the year 2005- 2006

8. Fellowships/Scholarships:

9. No. of Research Publications:

- Papers in journals : 23
- In conference proceedings : 25
- Invited/key-note addresses: : Delivered more than 15 Lectures at different National and International forum and courses organized by HRD
- List of best 05 publications:

Sl. No.	Name of authors	Title of Paper	Name of Journal, volume, year and page
1.	R P Singh , S K Ray, N Sahay and B C Bhowmick	Study on application of fire suppression techniques under dynamic condition of fire	The Journal of the South African Institute of Mining & Metallurgy , Vol 104, No. 11, December 2004, pp 607-616
2.	R P Singh and S K Ray	Study on control of disastrous open fires in underground coal mines	Journal of Scientific & Industrial Research , Vol 63, Dec 2004, pp 1010-1018
3.	S K Ray and R P Singh	Effect of water mist on open fire – a model study	Mining Technology, (Trans. Inst. Min. Metall. A) USA, March - 2005, Vol. 114 AI.
4.	S K Ray, R P Singh N Sahay and N K Varma,	Assessing the status of sealed fire in underground coal mines	Journal of Scientific & Industrial Research , Vol 63, July 2004, pp 579-591
5.	R. P. Singh , Mousumi Mallick and M.K.Verma	Corrosion and its effect on wire rope used in underground coal mines	Journal of Engineering and Applied Sciences , Vol.3, Issue.1, January 2016.

10. Number of Books authored/edited : Co- editor of proceedings of 27th International Conference of Safety in Mines Research Institute

11. (a) No. of Patents granted/applied for: Two

(b) Technologies developed, Licensed and/or commercialized:

(i) Developed dynamic balancing of pressure technique to control coal mine fires.

(ii) Development of HPHS nitrogen foam technique to control coal mine fires.

12. Foreign visits :

13. Details of Professional memberships:

Nominated as an Executive life Member of **Indian Society for Advancement of Material & Process Engineering** at ISM Dhanbad Chapter.

14. Major contributions: (Max. 150 words)

- Studies on simulation of open fire in Mine Fire Model Gallery under varied airflow for suppression of fire and explosions in underground coalmines.
- Studies on problems of spontaneous heating in coal pillars and development of techniques for its prevention, early detection and control.
- Developed dynamic balancing of pressure technique to control coal mine fires.
- Applied chamber method of ventilation to control fire in log wall working panel.
- Diesel Fire Studies AT CIMFR Mine Fire Gallery.
- Design and fabrication of suitable heating device for 1.5m long pressure tube and calandria tube (PT-CT) deformation study under simulated heating condition.
- Modernization of CIMFR Metallurgical laboratory.
- Failure analysis of mining engineering appliances.
- Study and advice on life-expediency of steel wire ropes for safe use in mines.

15. Technologies and Products/ Services

(i) Developed technology.

I. Development of HPHS nitrogen foam technique and water mist to control coal mine fire

II. Designing of a suitable heating device for pressure tube-calandria tube (PT-CT) and its deformation study under simulated heating condition (first of its kind in India).

(i) Licensed:

(ii) Commercialized:

16. Designs and Prototype Developed:

17. Honors and awards won for technological contributions or sociological impact of R&D:

Signature