

1. Name: **DR. ASHIS MUKHERJEE**

2. Date of Birth: 11.01.1966



3. Current Position and Address: Senior Principal Scientist,
(with E-mail & Phone no.) HORG, Combustion Science and Technology
CIMFR, Digwadih Campus, Dhanbad-828108, Jharkhand
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4. Educational qualifications: (Graduation and above)

Sl. No.	Degree/ Certificate	Year of Passing	University/ Institute	Subjects
I	BE	1988	NIT,Durgapur	Chemical Engg
li	MS	1991	BITS,Pillani	Science & Technology
lii	M.Tech	1993	ISM,Dhanbad	Mineral Engg
Iv	Ph.D	1999	ISM , Dhanbad	Combustion

5. Work experience

Designation	Institution/company	From	To	Nature of work
I Scientist B	CFRI,	19.06.1989	18.06.1994	Coal Combustion
li Scientist C	CFRI	19.06.1994	18.06.1999	Coal Combustion
lii Scientist E1	CFRI	19.06.1999	18.06.2004	Coal Combustion
Iv Scientist E2	CFRI	19.06.2004	18.06.2009	Coal Combustion
V Senior Principal Scientist	CIMFR	19.06.2009	Cont.	Coal Combustion

6. Area of specialization: Combustion

7. Honors/Awards received: Technology Award for production of Nicotinamide from
Cyanopyridine

8. Fellowships/Scholarships:

9. No. of Research Publications:

- Papers in journals: 15
- In conference proceedings: 20
- Invited/key-note addresses: 10
- List of best 05 publications:

1) Studies on the combustion behaviour of blends of Indian coals by TGA and Drop Tube Furnace- S. Biswas, N. Choudhury, P. Sarkar, A. Mukherjee, S.G. Sahu, P. Boral and A.Choudhury. – 2006, Fuel Processing Technology, Vol. 87,191-199.

- 2) Influence of rank and macerals on the burnout behavior of pulverized Indian coal- Nandita Choudhury, S. Biswas, P. Sarkar, Manish Kumar, Sujit Ghosal, Tandra Mitra, A. Mukherjee, A. Choudhury.- International Journal of Coal Geology, Vol 74, 2008 Pg No 145-153
- 3) Impact of Petrographic Properties on the Burning Behavior of Pulverised Coal Using a Drop Tube Furnace – S. Biswas, A. Mukherjee, N. Choudhury et. al., Energy & Fuels 2007, 21, 3130-3133.
- 4) Manish Kumar, A. Mukherjee, S. G. Sahu, OXY-FUEL COMBUSTION – A REVIEW, International Journal of Emerging Technology and Advanced Engineering, Volume 3, Special Issue: ICERTSD 2013, Feb 2013, An ISO 9001:2008 certified Int. Journal, ISSN 2319-5991,
- 5) Combustion behaviour of coal/biomass blends using thermogravimetric analysis, International Journal of Emerging Technology and Advanced Engineering 3 (2013) 131-138, IJETAE.

10. Number of Books authored/edited:

11. (a) No. of Patents granted/applied for: 10
 (b) Technologies developed, Licensed and/or commercialized: 2

12. Foreign visits: Two (Russia and UK)

13. Details of Professional memberships:

14 . Major contributions: (Max. 150 words)

- i) Oxy fuel Pilot plant is installed and commissioned to develop zero emission technology for the power plant.
- ii) Utilization of Non-coking Coal as PCI in the Blast Furnace of Tata Steel .
- iii) Detail Planning, measurement, estimation of different parameters for utilization of coal blends as PCI in the blast Furnace.
- iv) Co-combustion of coal and biomass blends.
- v) Study on commercial viability of process for reduction of moisture in Imported Non-coking (Steam) Coal
- vi) Bio Reactor design for Bio-Gasification.
- vii) Fluidised bed reactor is designed for production of activated carbon from North Eastern region coal..
- viii) Bench scale plant is designed for production of potassium fertilizer from fly ash
- ix) Ceramic based support material and filter material is tested in Drop Tube Furnace for development of ceramic filter
- x) Fluidised bed reactor is modified, process parameters are optimised for production of activated carbon from North Eastern region coal.
- xi) Development of Coal Water Slurry preparation and combustion technology
- xii) Utilization of coal rejects, co-combustion of coal and biomass blends.
- xiii) Development of Solvent Refined Coal Technology
- xiv) Normative coal requirement for different Industries
- xv) Equivalent chart for conversion from UHV to GCV
- xvi) Utilization of Spent Pot Lining of smelter

15. Technologies and Products/ Services

- (i) Developed: 4
- (ii) Licensed:
- (iii) Commercialized:1

16. Designs and Prototype Developed:

- 1) Drop Tube Furnace
- 2) Fuel Evaluation Test Facility
- 3) Coal Water Slurry Test Rig
- 4) Steam activation set up for activated carbon

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

Technology award for production of Nicotinamide from Cyanopyridine.