

SHORT BIODATA

Chandi Dutta Singh

Designation

- Steel Chair Professor, Metallurgical Engineering, B.I.T. Sindri, Dhanbad
- Ex. Professor (Nanotechnology, CUJ, Ranchi)
- Ex. Director (GGSESTC, Bokaro)
- Ex. Principal (RVSCET, Jamshedpur)
- Ex. DGM (RDCIS, SAIL, Ranchi)

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Academic Qualification :

B.Sc. (Engg.) Metallurgical Engineering, Ranchi University (1972) – 1st Division

M.Sc. (Engg.) Metallurgical Engineering, BHU (1974) – 1st Division

Ph. D. Metallurgical Engineering, BHU (1990)

Academic Qualification :

Teaching – 15 Yrs

Research – 30 Yrs

[A] Teaching Undergraduate and Postgraduate students:

Physical Metallurgy, Phase transformation, Materials Science, Manufacturing science, Metal Forming, Physics of Materials, Mechanical Behaviour of Materials, Synthesis of Nanomaterials, Advanced Analytical Characterization of Materials, Composite Materials and Ceramics Materials.

[B] Research and Development work on various steels :

- Development of steels for power sector, such as 2.25 Cr- 1Mo and 1Cr- 0.5 Mo Grades.
- Development of steels for defence applications in missile system.
- Development of Steels for energy sector such as semi- processed electrical steels, cold rolled non oriented (CRNO) M-36 grade and Increase in productivity of CRNO M-47 and M-45 grades.

- Development of steels for automobile sector : Optimization the processing parameters to improve texture and enhance normal anisotropy parameters (r) and the forming behaviour of DQ and EDD steels.
- Development of special steels thick plates and ultra fine grains ferrite steels.
- Minimization of ridging phenomenon in ferritic stainless steel sheets and improvement in productivity of skin- pass mill.
- Improvement in drawability of austenitic stainless steel.

[C] Development of FORTRAN Software FOR Texture Analysis

- Three Dimensional texture analysis by ODF techniques of various steels such as CRGO and CRNO Steels, Drawing quality, Ferritic and austenitic stainless steels .
- Mathematical modelling of texture and related properties such as FLD, yield locus and anisotropy parameters(r) for EDD steels.
- Mathematical modelling of strain hardening behaviour of high carbon steels wires.
- Failure investigations in various steel products.

Publication and Patent :

- Total no. of Publications in National Journals : 2
- Total no. of Publications in International Journals : 13
- Total no. of Publications in National Conference Proceedings : 3
- Total no. of Publications in International Conference Proceedings : 4
- Total no. of papers presented in Conferences : 47
- Total no. of National Patent/ copyright : 6
- Total no. of International Patent : 1

Any other Relevant Information :

- No. of projects Completed: 25
- No. of Failure Investigation: 17
- No. of Sponsored Research and consultancy undertaken: 45
- Member of professional bodies: 7

Awards/ Honours/ Recognitions :

- Steel Eithties
- Total Award: 13
- Invited speaker in University of Clausthal, Germany

Declaration

I hereby declare that the above particulars submitted are true to be best of my knowledge and belief.

Place :

Date :

(Chandi Dutta Singh)