



**KAZI NAZRUL UNIVERSITY
ASANSOL**

Mr. GURUDAS MANDAL

Assistant Professor

Permanent Address:

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Present Address:

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Present Status:

Assistant Professor in the department of Metallurgical Engineering of School of Mines and Metallurgy of Kazi Nazrul University, Asansol, West Bengal, India.

Professional Qualification:

- ❖ Doctor of Philosophy (Engineering): 2020, IEST, Shibpur (Submitted).
- ❖ Master of Engineering (Met. & Mat. Eng.): 2014, IEST, Shibpur.
- ❖ Bachelor of Engineering (Met. & Mat. Eng.): 2012, BESU, Shibpur.

Technical Skills:

- ❖ Worked with various Optical Microscopies
- ❖ Worked with Instron Tensile machine
- ❖ Worked with various Hardness Testing machine

Industrial & Technical Training:

- ❖ 4-Week Training in steel Plant at Vikrant Forge Limited, Dankuni-711224, Hooghly, West Bengal, India.
- ❖ One year (2006-2007) Diploma course on Diploma in Computer Software at WWSCE, Pakuahat, Malda- 732138, West Bengal.

Projects:

- ❖ Design and development of 2 GPa grade ultrahigh strength steel for automobile application (at PhD level).
- ❖ Development of high strength multiphase steel through the various processing conditions (at PG level jointly TATA Steel sponsored project).

- ❖ Improved mechanical properties through the reversion in cold deformed austenitic stainless steel (at PG level).
- ❖ A study on mechanical property of vanadium carbide precipitate strengthened low carbon steel (at UG level).
- ❖ To study metallography and mechanical properties of 18CrNiMo7-6 grade steel (at Industrial Training).

Conference, Workshop, Congress, Seminar and Short Term Course:

1. International conference on advanced materials (ICAM- 2019) 12 - 14th June 2019
Department of Physics, Nirmalagiri College, Kannur, Kerala, India
2. Research paper presented at 9th International Conference on Materials Processing and Characterization (ICMPC-2019), 8-10th March, 2019, GRIET, Hyderabad- 500090, Telangana, India
3. Research paper presented at 25th West Bengal State Science and Technology Congress, 4th and 5th March, 2018, Science City, Kolkata, India.
4. Research paper presented at Asia Steel International Conference 2018, February 6-9, 2018 Bhubaneswar, Odisha, India.
5. Research paper presented at 2nd Regional Science and Technology Congress, 2017, West Bengal, Northern Region, 7-8 December, 2017, Siliguri College, Siliguri, West Bengal, India.
6. Participant in workshop on Industry Institute Meet 2017. March 2, 2017, IEST, Shibpur.
7. Participant in workshop on Solidification and Phase Transformation (SPT-2016). August 26-27, 2016, Jadavpur University, Kolkata.
8. Participant in Research Scholar Colloquium 2016. August 23-24, 2016, IEST, Shibpur.
9. Research paper presented at National seminar on Advancement in ultra clean steel technology and thermo-mechanical processing for defence application, 19 August 2016, Metal and Steel Factory, Ishapore, West Bengal.
10. Participant in workshop on Materials Characterization: Principles and Practices (MCP-2016). July 25 - August 5, 2016, IEST, Shibpur.
11. Research paper presented at International Conference on Recent Trends in Engineering and Materials Science (ICEMS-2016), March 17-19, 2016, Jaipur, India.
12. Research paper presented at 23rd West Bengal State Science and Technology Congress 2016, 28-29 February 2016, Presidency University, Kolkata.
13. Attended the International Workshop on High Performance Steels: November 21-22, 2012: Bengal Engineering and Science University, Shibpur.
14. Attended the workshop on Surface Engineering of Metals and Alloys (SEMA-2012): March 01-02, 2012: Bengal Engineering and Science University, Shibpur.

Computer Proficiency:

- ❖ Good Working knowledge in Windows 7 & 10, MS-Office etc.

Achievements & Participations:

- ❖ GATE qualified (2011)
- ❖ Secured third position in quiz competition held by Rajya Kushth Samiti, Pashchim Banga Sarkar.
- ❖ Outstanding paper award: 2nd Regional Science and Technology Congress, 2017, West Bengal, India.

Extra Curricular Activities:

- ❖ Complete a training course of BHARAT SCOUT & GUIDE for four weeks.
- ❖ Played inter school kabaddi tournament at district level.
- ❖ Life and G.B. member of a Govt. registered social welfare society: “PARBATIDANGA JANAKALYAN SAMITY”.
- ❖ Life trustee of a Govt. registered Trust: “APANJAN”

Publications:

Papers published in International Journals:

- [1] **G. Mandal**, S. K. Ghosh and S. Chatterjee, “Effect of thermomechanical controlled processing and quenching & Tempering on the structure and properties of bainite-martensite steels” **Archives of Metallurgy and Materials** (2019), **Accepted**.
- [2] **G. Mandal**, S. K. Ghosh, D. Chakrabarti and S. Chatterjee, “Influence of TMCP Parameters on Structure and Properties of Low Carbon Cu Bearing Ultra-High Strength Steel”, **Physics of Metals and Metallography** (2019), **Accepted**.
- [3] N. K. Tewary, A. Gupta, **G. Mandal**, S. K. Ghosh, A. Das, P. Datta and A. Ghosh, “Improvement of corrosion performance of DI pipe by newly invented CNSL based paint”, **Materials Today: Proceeding** 18(2019), 5202-5208.
- [4] **G. Mandal**, S. K. Ghosh and S. Chatterjee, “Effects of TMCP and QT on Microstructure and Properties of Ultrahigh Strength Steel”, **Materials Today: Proceedings** 18(2019), 5196-5201.
- [5] **G. Mandal**, S. K. Ghosh, D. Chakrabarti and S. Chatterjee, “Correlation between structure and properties of low carbon Cu-Ni-Mo-Ti-Nb ultrahigh strength steel”, **Journal of Materials Engineering and Performance** 27(2018), 6516-6528.
- [6] **G. Mandal**, S. K. Ghosh, D. Chakrabarti and S. Chatterjee, “Effects of thermo-mechanical process parameters on microstructure and crystallographic texture of high Ni-Mo ultra high strength steel”, **Metallography, Microstructure, and Analysis** 7(2) (2018), 222-238.
- [7] **G. Mandal** and S. K. Ghosh, “Microstructural evolution and mechanical behaviour of high strength steel treated by quenching and partitioning process”, **Materials Today: Proceedings** 4 (2017), 9418-9422.
- [8] **G. Mandal**, N. K. Tewary and S. K. Ghosh, “Enhancement of Mechanical Properties in Bainitic Steel Processed from Different Austenitisation Temperatures”, **Steel Research Int.** 89(2) (2017), DOI: 10.1002/srin.201700259.
- [9] **G. Mandal**, C. Roy, S.K. Ghosh and S. Chatterjee, “Structure-property relationship in

- a 2 GPa grade micro-alloyed ultrahigh strength steel”, **Journal of Alloys and Compounds** 705 (2017), 817-827.
- [10] **G. Mandal**, S. K. Ghosh, S. Bera and S. Mukherjee, “Effect of partial and full austenitisation on microstructure and mechanical properties of quenching and partitioning steel”, **Materials Science & Engineering A** 676 (2016), 56-64.
- [11] **G. Mandal**, S. K. Ghosh and S. Mukherjee, “Phase transformation and mechanical behaviour of thermo-mechanically controlled processed high-strength multiphase steel”, **Journal of Material Science** 51 (2016), 6569-6582.

Proceedings and Book of Abstracts:

- [1] **G. Mandal**, S. K. Ghosh and S. Chatterjee, “development of advanced high strength steel through the various processing routes”, **International conference proceeding**, International Conference on Advanced Materials 2019 (**ICAM-2019**), June 12-14, 2019, Nirmalagiri College, Kannur, Kerala, India.
- [2] **G. Mandal**, S. K. Ghosh and S. Chatterjee, “Development of ultrahigh strength steel”, **Book of Abstracts** of 25th West Bengal State Science and Technology Congress, 4th and 5th March, 2018, Science City, Kolkata. (2018) P-57.
- [3] **G. Mandal**, S. K. Ghosh and S. Chatterjee, “Development of micro-alloyed ultrahigh strength steel through thermo-mechanical controlled processing”, **Seminar proceedings**, Asia Steel International Conference 2018, February 6-9, 2018 Bhubaneswar, Odisha, India.
- [4] **G. Mandal**, S. K. Ghosh and S. Chatterjee, “Development of ultra-high strength steel by thermo-mechanical controlled processing”, **Seminar proceedings**, National seminar on Advancement in ultra clean steel technology and thermo-mechanical processing for defence application, 19 August 2016, Metal and Steel Factory, Ishapore. pp 1-8.
- [5] **G. Mandal**, S. K. Ghosh and N. Barman, “Transport phenomena of a metal analogous binary solution ($\text{NH}_4\text{Cl} + \text{H}_2\text{O}$) on an inclined cooling plate”. **Book of Abstracts** of 23rd West Bengal State Science and Technology Congress 2016, 28-29 February 2016. pp 80-81.

Personal Details:

Nationality : Indian.
Religion : Hinduism.
Category : Scheduled caste (SC).
Marital Status : Married.
Sex : Male.
Language Known : Bengali, English, and Hindi.

DECLARATION

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of above mention particulars.

Gurudas Mandal.
 [GURUDAS MANDAL]