Bhabani Prasad Sahoo

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QUALIFICATION

Master of Technology in Metallurgical & Materials Engineering
(Biju Patnaik University of Technology, Odisha)

RESEARCH PUBLICATIONS

1 "**Synthesis and Wear Properties of Near Eutectic Al-Si-TiB_2/Al_2O_3 Hybrid Composites**"
- Materials Today Proceedings of ELSEVIER International journal.

2 **"Stimulation Of Microstructure and Wear Properties by Pouring Temperatures of Al-Si-Al_2O_3 Hypereutectic Alloy"**
- Materials Today Proceedings of ELSEVIER International journal.

3 **"Studies on In-Situ TiB2 Reinforced Al-Si Alloys Synthesized by Stir Casting Method"**
- Materials Today Proceedings of ELSEVIER International journal.

4 "**Dry Sliding Wear Behaviour of Al-Si-TiB_2 In Situ Composites**"
- International Journal of Advanced Mechanical Engineering of Research India Publication.

5 **"Characterization of Al-Si-TiB_2 In-Situ Composite Synthesized by Stir Casting Method"**
- ELIXIR International journal.

CONFERENCE PRESENTATIONS

1 **"Processing and wear behaviour of Al-Si-TiB_2/Al_2O_3 hybrid composites"**
- Emerging Trends in Engineering and Technology-Industry 4.0 (ETETI-2023).
- Indira Gandhi Institute of Technology, Sarang.

2 **"Synthesis and wear properties of near eutectic Al-Si-TiB_2/Al_2O_3 hybrid composites"**
- International Conference on Processing and Characterization of Materials (ICPCM) 2022.
- National Institute of Technology, Rourkela.

3 **"Tribological Behaviour of Al-Si-TiB_2 In- Situ Composites"."**
- Conference on Processing and Characterization of Materials (CPCM) 2020.
- National Institute of Technology, Rourkela.

4 **"Characterization and Mechanical Properties Enhancement of Al-Si-TiB_2 In-Situ Composite."**
- International Conference on Innovations in Aluminium Technology (INALT) 2020.
- Indian Institute of Metals (IIM), Angul Chapter, Nalco, Angul

5 **"Studies on In-Situ TiB_2 Reinforced Al-Si Alloys Synthesized by Stir Casting Method"**
- International Conference on Processing and Characterization of Materials (ICPCM) 2019.
- National Institute of Technology, Rourkela.

6 **"Dry Sliding Wear Behaviour of Al-Si-TiB_2 In-Situ Composites"**
- National Conference on Multi-Dimensional Advancement in Mechanical Engineering (NCMAME) 2017.
- Govt. College of Engineering, Kalahandi.

7 **"Shape Memory Alloy-NITINOL"**
- TECHNICA 2016
- National Institute of Technology, Jamshedpur.

RESEARCH WORK GUIDED

Sl. No.	Year of Submission	Course	Regn. No. (Institute)	Name of the Candidate	Title of the Thesis
1	2024	M.Tech	2207105028	Priyaranjan Sahoo	**"Effect of super heat temperature on microstructure & hardenability of continuously cast 20MnCr5 grade steel billet.**
2	2024	B.Tech	2001105587	Sunanda Behera	**"Synthesis and characterization of Al-Si-TiB2/Al2O3 hybrid composite.**
			2001105547	Arpita Panda	
			2001105630	Chandan Mishra	
			2001105628	Bibhudatta Pradhan	
			2001105581	Soumyajit Panda	
3	2024	B.Tech	2001105592	Amisha P Sahoo	**"Studies on in-situ TiB2 reinforced Al-Si Alloys synthesized by stir casting method"**
			2001105558	Jayasmita Jena	
			2001105585	Subham S Sahoo	
			2121105077	Sashikant Garnaik	
			2121105074	Rintu Barik	
4	2023	M.Tech	2107105046	Subhasmita Nayak	**"Effect of Manganese on Microstructural Behaviour of Al-14Si Alloy."**
5	2022	M.Tech	2007105073	Saiananda Sahoo	**"Synthesis and Characterization of Al-Si-TiB_2/AL_2O_3 in-situ hybrid composites."**
6	2022	B.Tech	1801105092	Asutosh Khatua	**"Mechanical Properties and Microstructure Study of Hypoeutectic Al-SI Alloy Reinforced with In-Situ TiB_2 Composite."**
			1801105151	Debashish Singh	
			1801105249	Manav Pradhan	
			1801105376	Sagarika Behera	
			1921105116	Soumen Sircar	
			1801105510	Subham Shekhar Behera	
7	2022	B.Tech	1801105130	Biswajit Srichandan Ray	**"Mechanical Properties and Microstructure Study of Hypereutectic Al-SI Alloy Reinforced with In-Situ TiB_2 Composite."**
			1801105166	Divyarani Parhi	
			1801105463	Smruti Prakash Behera	
			1921105114	Snehashis Patra	

TRAINING/PROJECTS UNDERTAKEN

1 **"Characterization and Mechanical Properties Enhancement of Al-Si-TiB_2 in-situ composites"**
- Final Project (M.Tech)

2 **"Mechanical Properties Enhancement and Microstructure Study of Hypereutectic Al-Si-TiB_2 in-situ composites"**
- Final Project (B.Tech)

3 **"Overview of Potline-1 (Operation) of Aluminium Production in Smelter Unit."**
- Summer Internship (13 Jun 2016 – 12 Jul 2016)
- National Aluminium Company Ltd. (NALCO), Angul.

SHORT TERM COURSE/ TRAINING PROGRAMME ATTENDED

Sl No.	Duration		Short term course/ Training Programme	Organization
	From	To		
1	22 Jan 2024	27 Jan2024	Computational Materials Engineering	MNIT, Jaipur, Rajasthan
2	September 2023		Module 2: Professional Ethics and Sustainability	NITTT-AICTE
3	September 2023		Module 3: Communication Skills, Modes and Knowledge Dissemination	NITTT-AICTE

4	September 2023		Module 8: Institutional Management and Administrative Procedures	NITTT-AICTE
5	18 Mar 2023	26 Mar 2023	Characterization and Testing of Components Following Laser Materials Processing including Surface Engineering and Additive Manufacturing	Scheme for promotion of Academic and Research Collaboration(PARC), IIT Kharagpur
6	22 Jan 2023	28 Feb 2023	Development of Sociology in India	NPTEL- AICTE, MHRD-Govt of INDIA
7	12 Dec 2022	16 Dec 2022	Advanced Manufacturing Processes	MNIT, Jaipur, Rajasthan
8	12 Nov 2022	13 Nov 2022	Recent Advances in Materials and Mechanics	IIT Bhubaneswar
9	22 Aug 2022	29 Sept 2022	Stress Management	NPTEL- AICTE, MHRD-Govt of INDIA
10	05 Aug 2022	09 Aug 2022	Materials Processing & Characterization	MNIT, Jaipur, Rajasthan
11	01 Aug 2022	05 Aug 2022	Designing and Modelling of IoT, AI & ML systems"	AICTE, ATAL Academy, Arm Education and STMicroelectronics
12	22 Jul 2022	26 Jul 2022	Materials Testing & Characterization for Academia and Industries	MNIT, Jaipur, Rajasthan
13	24 Jan 2022	23 Feb 2022	Effective Engineering Teaching in Practice.	NPTEL- AICTE, MHRD-Govt of INDIA
14	01 Oct 2021	05 Oct 2021	Recent advances in Metal alloy Design and Processing	MNIT, Jaipur, Rajasthan
15	02 Sept 2021	06 Sept 2021	Advances in Materials Processing and Characterization (AMPC) 2021	IGIT Sarang
16	09 Nov 2020	13 Nov 2020	Transport Phenomena in Industrial Processes	IGIT Sarang
17	28 Aug 2020	01 Sept 2020	Advances in Materials Processing and Characterization (AMPC) 2020	IGIT Sarang
18	24 Feb 2020	28 Feb 2020	Advances in Materials Processing (AMP) 2020	IGIT Sarang

SKILLS

Language	Odia, English, Hindi
Computer Proficiency	PGDCA, Ms- Office, Programing in C & C++

SUBJECT INTERESTS

Composite Materials, Characterization of Materials

INTERESTS

Creative writing, Book reading, Volunteering, Photography

DECLARATION

I do hereby declare that all the information given above is true to the best of my knowledge and belief.

(BHABANI PRASAD SAHOO)