



NATIONAL INSTITUTE OF TECHNOLOGY JAMSHEDPUR

Name: Dr. Shashi Bhushan Prasad

Designation: Associate Professor and Head of the Department

Department: Production and Industrial Engineering

Date of Birth: 31st January, 1966

Specialization: Energy management, Industrial Engineering, Production Management

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Education Qualification:

S. No.	Degree	Specialization/ Stream	Class/Division	Year of Passing	University/Board
1	Matriculation	---	1 st	1982	Bihar School Examination Board, Patna
2	Intermediate	Science	1 st	1984	Bihar Intermediate Edu. council, Patna
3	B.Sc. (Engineering)	Mechanical Engineering	1 st	1991	MIT Muzaffarpur/ B.U. Muzaffarpur
4	M.Sc. (Engineering)	Mechanical Engineering	1 st	2002	NIT Jamshedpur / R.U. Ranchi
5	Ph.D.	Thermal Engineering (Solar Energy)	---	2009	IIT Roorkee

Title of Thesis:

- a. **PG:** The improvement of collector efficiency in solar air heaters by simultaneous air flow over and under the artificially roughened absorbing plate
- b. **Ph.D.:** Heat and fluid flow in low porosity wire mesh packed bed solar air heater with cross flow

Supervision:

- a. **M.Tech. Thesis:** 14 Awarded
- b. **Ph.D. Thesis:** 2 Awarded, 6 Ongoing

Sponsored Project:

Development of wear-resistant and corrosion-resistant electroless coating for different metallic instruments/tools used in rural areas under the scheme National Initiative for Design Innovation, Government of India (Ongoing)

Additional Responsibilities:

1. **HOD (Production and Industrial Engineering):** From 14 May 2018 to till date
2. **Chairman/Convener (Institute Medical Services):** From 12 Dec 2018 to till date
3. **Faculty In-Charge (Institute Guest House):** From 22 Aug 2014 to 2020
4. **Faculty In-Charge (NSS):** From 22 Aug 2013 to 10 Feb 2019

5. **Associate Dean (Planning and development (Housekeeping and green campus)):** From 13 May 2015 to 30 Sep 2018
6. **Co- Professor In-charge, (Continuing Education Program):** From 08 Jan 2020 to till date
7. **Liasion Officer (OBC):** From 05 Jul 2019 to till date
8. **Lab In-Charge (CAD/CAM Lab):** From 08 Jun 2009 to 31 Jul 2018
9. **Lab In-Charge (Welding Lab):** From 01 Aug 2018 to till date
10. **Lab In-Charge (Foundry Lab):** From 16 Jul 2019 to till date

Academic Identities Details:

- a. **OrcID:** 0000-0003-1743-4895 (<https://orcid.org/0000-0003-1743-4895>)
- b. **Google Scholar:** WL_vadQAAAAJ
(http://scholar.google.co.in/citations?user=WL_vadQAAAAJ)
- c. **Scopus ID:** 57194285850
(<https://www.scopus.com/authid/detail.uri?authorId=57194285850>)
- d. **Researcher's ID:** AAC-1151-2019 (<https://publons.com/researcher/3164152/shashi-bhushan-prasad/>)

Publications:

1. Sanjay Kumar, Pravin K Singh, D Patel, Shashi B Prasad: **Optimization of welding parameters of GTAW using response surface methodology - Scientific Bulletin Series-D** vol:79 (2017)
2. Pravin Singh, D.Patel and Shashi B. Prasad : **Investigation on the effect of vibrations on cooling behavior and mechanical properties of SMAW butt welded joints - Scientific Bulletin Series-D** vol:79 (2017)
3. S. N. Sinha, M. K. Agrawal, S. B. Prasad & R. B. Prasad: **Red mud-A major pollutant in Aluminium industry - Proceeding of Int. sem. on Mineral Processing Technology (MPT-2001)** pp:171-275 (2001)
4. S.B. Prasad and S.P. Sharma: **The improvement of collector efficiency in Solar Air Heaters by simultaneous Air Flow over and under the Artificially Roughened Absorbing Plate - International Conference on RASECS-2002, MANIT, Bhopal** pp:70-77 (2002)
5. S. B. Prasad, J. S. Saini and Krishna M. Singh: **Effect of Porosity on the Performance of Wire Mesh Packed Bed Solar Air Heater - International Conference on Emerging Research and Advances in Mechanical Engineering** (2009)
6. S.N.Sinha, M.K.Agrawal A. K. Akella, R. B. Prasad & S. B. Prasad : **Renewable energy Sources-An answer for Tomorrow - Energy Technology for sustainable Development** pp:58-63 (1999)
7. S. N.Sinha, M. K.Agrawal, S. B. Prasad R. B. Prasad : **Alternative Energy Sources- A must for clean Environment - Pollution: Impact and Emerging Remedial Measures** pp:82-86 (2001)
8. Pravin Kumar Singh, S. Deepak Kumar D.Patel and Shashi B. Prasad : **Optimization of vibratory welding process parameters using response surface methodology, - Journal of Mechanical Science and Technology, SPRINGER** vol:31 pp:2487-2495 (2017)
9. Sanjay KUMAR, Pravin K SINGH, D PATEL, Shashi B PRASAD: **Optimization of TIG welding process parameters using taguchi's analysis and response surface methodology - International Journal of Mechanical Engineering and Technology (IJMET)** vol:8 issue:11 pp:932-941 (2017)
10. Pravin Kumar Singh, D. Patel and Shashi B. Prasad: **Development of Vibratory Welding Technique and Tensile Properties Investigation of Shielded Metal Arc Welded Joints - Indian Journal of Science and Technology** ISSN: 0974-6846 vol:9 (2016)
11. Majid Jahangir, Gurmeet Singh, Satish Kumar, Mani Kanwar Singh, Shashi Bhushan Prasad : **OPTIMIZATION AND EROSION WEAR RESPONSE OF UNCOATED PUMP IMPELLER MATERIAL SS-404 USING FLY ASH - Advancements in Simulation Experimental Techniques in Mechanical Engineering (NCASEme-2019)** (2019)
12. Sanjay Kumar, Pravin K. Singh, D. Patel and S. B. Prasad: **Experimental Investigation and Optimization of Welding Parameters on TIG Welding of Stainless Steel AISI 304 Plates - Innovation in Materials Science and Engineering** vol:2 pp:91-102 (2019)
13. Pravin Kumar Singh, D.Patel and Shashi B. Prasad : **Investigation on the effect of auxiliary vibrations on microstructure and mechanical properties of SMAW butt welded joints - Indian Journal of Engineering and Materials Sciences, NISCAIR** vol:25 pp:155-162 (2018)

14. Pravin Kumar Singh, D. Patel, S. B. Prasad: **Effect of Auxiliary Vibrations on Microhardness Properties of MIG Welded MS Plate Joints** - *Status of Welding in Research and Advancement in Analysis of Welded Structure* pp:18-23 (2015)
15. S.N.Sinha, M.K.Agrawal, R.B.Prasad, S.B.Prasad and K.K.Singh : **Alternative Energy Sources - Need of the Hour** - *Renewable Energy* (2004)
16. Paras Verma, Satish Kumar, Kundan Lal, Jatinder Pal Singh, S.B. Prasad: **Prediction of pressure drop for the flow of zinc ore-water suspension in horizontal pipeline** - *Materials Science and Engineering* pp:155-162 (2018)
17. S. B. Prasad, J. S. Saini and Krishna M. Singh: **Investigation of Heat Transfer and Friction Characteristics of Packed Bed Solar Air Heater using Wire Mesh as Packing Material** - *Solar Energy* vol:83 pp:773- 783 (2008)
18. S. B. Prasad, J. S. Saini and Krishna M. Singh: **Investigation of Enhancement of Thermal Performance of Packed Bed Solar Air Heater Using Wire Mesh as Packing Material** - *19th National and 8th ISHMT-ASME Heat and Mass Transfer Conference, JNTU Hyderabad* pp:1-6 (2008)
19. Nehem Tudu, Mayuri Baruah and Shashi Bhushan Prasad: **Morphological Study of Deposited IN625 and SS304L by Laser Directed Energy Deposition Method** - *International Congress, IC2020, Advanced Welding Technology and Quality Systems for Developing Economies, 6th – 8th February, 2020*
20. Kaushal Kumar, Satish Kumar, Chandra Bhushan Tripathi, Harish Sharma, Shashi Bhushan Prasad: **Parametric optimization of slurry erosion behaviour of brass** - *Materials Today: Proceedings* ISSN: 2214-7853 vol:26 issue:2 pp:1604-1609 (2020)
21. Kundan Kumar, Ashish Das and Shashi Bhushan Prasad: **Recent developments in biodegradable magnesium matrix composites for orthopaedic applications: A review based on biodegradability, mechanical and biocompatibility perspective** - *Materials Today: Proceedings* ISSN: 2214-7853 (2021)
22. Shambhu Kumar Manjhi, Ashish Das, Shashi Bhushan Prasad: **Review on joining of aluminum alloy by solid-state welding technique** - *Materials Today: Proceedings* ISSN: 2214-7853 vol:26 issue:2 pp:1255-1261 (2020)
23. Niraj Kumar, Ashish Das, Shashi Bhushan Prasad: **An analysis of friction stir welding (FSW) of metal matrix composites (MMCs)** - *Materials Today: Proceedings* ISSN: 2214-7853 vol:26 issue:2 pp:2650-2656 (2020)
24. Mayuri Baruah, Shashi Bhushan Prasad, Nehem Tudu, Binay Kumar Murmu, Subhash Singh: **Experimental investigation of Inconel welded joints formed by pulsed micro plasma welding** - *Materials Today: Proceedings* ISSN: 2214-7853 vol:33 issue:8 pp:5751-5756 (2020)
25. Gurmeet Singh, Satish Kumar, Satbir Singh Sehgal, Shashi Bhushan Prasad: **Erosion wear analysis of HVOF coated Colmonoy-88 and Stellite-6 micron layers on pump impeller steel by using the Taguchi's approach** - *Industrial Lubrication and Tribology* ISSN: 0036-8792 vol:72 issue:3 pp:455-463 (2019)
26. Rishabh Swarnkar, Sohan Chaudhary, Ashish Das, Shashi Bhushan Prasad, Mukesh Kumar and Raj Ballav: **Effects of Brass Interlayer on Mechanical Properties of Friction Stir Welded AA 6061-T6 Joint** - *Transactions of the Indian Institute of Metals* ISSN: 0972-2815 (2021)