RESEARCH PAPERS PRESENTED/ PUBLISHED

Patents

- Purushottam Mishra, **Suryanarayan B. Mishra**, (2025), "A Method of Clad Deposition over a Polyhedral substrate," Patent Application No. 202511052980, Date of Filing: May 31, 2025.

International Journals

- Purushottam Mishra, **Suryanarayan B. Mishra**, (2025), "Comparison of CoCrNiTiMo and CoCrNiTiMoAl coatings in simulated oxidation conditions at 650 °C, 800 °C, and 950 °C temperatures," **Surface and Coatings Technology**, Volume 520, 15 January 2026, 132991, pp. 1-16, Published online: November 24, 2025, https://doi.org/10.1016/j.surfcoat.2025.132991. ISSN 0257-8972 (**Q1, SCI, Impact Factor 6.1**).
- Manavendra Mishra, **S.B. Mishra**, and D. K. Shukla, (2025), "Erosion performance of microwave processed Nickel-base coatings at an elevated temperature," **Surface Engineering**, Published online: December 03, 2025, doi:10.1177/02670844251401386. Print ISSN: 0267-0844, Online ISSN: 1743-2944. (**Q1, SCIE, Impact Factor 2.6**).
- Purushottam Mishra, **S.B. Mishra**, (2025), "Oxidation behaviour of microwave hybrid heating processed CoCrNiTiMo high entropy alloy cladding," **Materials Chemistry and Physics**, Vol. 341, 130833, pp. 1-13, Published online: April 15, 2025, https://doi.org/10.1016/j.matchemphys.2025.130883. (**Q1, SCI, Impact Factor 4.7**).
- Purushottam Mishra, **S.B. Mishra**, (2025), "Failure Analysis of T91 finish superheater tube in 660 MW supercritical thermal power plant," **Journal of Materials Engineering and Performance**, Vol. 34, pp.11493-11505. doi.org/10.1007/s11665-024-09997-0. (**Q2, SCIE, Impact Factor 2.2**).
- Srikant Tiwari**, S.B. Mishra**, (2024), "In-vitro wear of Titanium reinforced Hydroxyapatite coatings in simulated body fluid," **ASME Journal of Tribology**, Vol. 146(11): 114001, https://doi.org/10.1115/1.4065983, (**Q2, SCI, Impact Factor 3**).
- Abhay Shankar Yadav, **S.B. Mishra,** (2024), "Comparative erosion performance of HVOF and LVOF sprayed NiCrSiBCFe-WC-Co coating," **Surface Engineering**, Vol. 40(5), pp. 575-590. doi:10.1177/02670844241273542 (**Q1, SCIE, Impact Factor 2.6)**
- Manavendra Mishra, **S.B. Mishra**, and D. K. Shukla, (2024), "Characterisation and erosion wear behaviour of Ni-13%WC8Co microwave clad on AISI-316 steel," **Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications**, online published Aug 2, 2024, Vol. 239, Issue:3, pp. 528-539. https://doi.org/10.1177/14644207241266661, (**Q2, SCIE, Impact Factor 2.4**).
- Abhay Shankar Yadav, **S.B. Mishra**, (2024), "Comparison on erosion performance of HVOF sprayed NiCrSiBCFe-WC-Co and NiCrSiBCFe-Cr3C2NiCr coatings," **Tribology - Materials, Surfaces & Interfaces**, 2024;18(3):197-214. doi:10.1177/17515831241274443. (**Q3,** E**SCI, Impact Factor 2**).
- Srikant Tiwari**, S.B. Mishra**, (2023), "LVOF sprayed Ti-HAp composite coatings for internal fixation devices in orthopaedic applications," **Surface and Coatings Technology**, Vol. 474, 130054, doi.org/10.1016/j.surfcoat.2023.130054, (**Q1, SCI, Impact Factor 6.1**).
- Prashant Kumar Singh, **S.B. Mishra**, Shyamsunder Mishra, Pallvita Yadav, (2023), "Comparative studies on oxidation behaviour of cobalt-based D-gun coatings on boiler steel," **Surface and Coatings**

Technology, Vol. 474, 130055, doi.org/10.1016/j.surfcoat.2023.130055, (**Q1, SCI, Impact Factor 6.1**).

- P. Mishra, **S.B. Mishra**, (2023), A Review of High-temperature Oxidation Behaviour of Thermally Sprayed Boiler Tube Materials in Advanced Coal-fired Thermal Power Plants. NanoWorld J 9(S1): S374-S379. **doi:** 10.17756/nwj.2023-s1-073, (**Q4, Scopus indexed**).
- Srikant Tiwari**, S.B. Mishra**, (2021), "Post annealing effect on corrosion behavior, bacterial adhesion, and bioactivity of LVOF sprayed hydroxyapatite coating," **Surface and Coatings Technology**, Vol. 405, 126500, doi.org/10.1016/j.surfcoat.2020.126500, (**Q1, SCI, Impact Factor 6.1**).
- Srikant Tiwari, **S.B. Mishra**, (2021), "Low velocity oxy fuel spraying of hydroxyapatite coating on a multifunctional UNS S31254 austenitic stainless steel," **The Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine**. 235(8):958-972. doi: 10.1177/09544119211015770, (**Q2, SCI, Impact Factor 1.8**).
- Prashant Kumar Singh, **S.B. Mishra**, (2020), "Studies on solid particle erosion behaviour of D-Gun sprayed WC-Co, Stellite 6 and Stellite 21 coatings on SAE213-T12 boiler steel at 400°C temperature," **Surface and Coatings Technology**, Vol. 385, 15 March 2020, 125353, https://doi.org/10.1016/j.surfcoat.2020.125353, (**Q1, SCI, Impact Factor 6.1**).
- Prashant Kumar Singh, **S.B. Mishra**, (2020), "Erosion performance of detonation gun deposited WC-12Co, Stellite 6 and Stellite 21 coatings on SAE213-T12 Steel," **Tribology - Materials, Surfaces & Interfaces**, Vol.14, pp. 229-239, DOI: 10.1080/17515831.2020.1785232, (**Q3, ESCI, Impact Factor 2**).
- Prashant Kumar Singh, **S.B. Mishra**, (2020), "Erosion behaviour of boiler component materials at room temperature and 400°C temperature," **Materials Research Express**, Vol. 7, 016538; https://dx.doi.org/10.1088/2053-1591/ab61b9, (**Q2, SCI, Impact Factor 2.2**).
- K. Guru, T. Sharma, **S.B. Mishra**, K.K. Shukla, (2019), "Effect of temperature on elastic properties of CNT reinforced nanocomposites," **Materials Research Express**, Vol. 6, No. 8, 085023; https://dx.doi.org/10.1088/2053-1591/ab1c0d, (**Q2, SCI, Impact Factor 2.2**).
- Prashant Kumar Singh, **S.B. Mishra**, (2018), "Erosion wear characteristics of HVOF Sprayed WC-Co-Cr and CoNiCrAlY coatings on IS-2062 structural steel," **Materials Research Express**, Vol. 5, No. 9, 095508; https://doi.org/10.1088/2053-1591/aad85d, (**Q2, SCI, Impact Factor 2.2**).
- Tiwari, S., and **Mishra, S. B**. (2018), "Corrosion of Stainless Steel and its Prevention through Surface Modification for Biomedical Application: A Review", **Asian Journal of Engineering and Applied Technology**, 7(2), 60-66.
- Prashant Kumar Singh, Amit Ranjan Hota and **S. B. Mishra**, (2018), "Finite Element Modelling of Erosion Parameters in Boiler Components", **Asian Journal of Engineering and Applied Technology,** Vol. 7, No.2, pp. 12-16.
- **S.B. Mishra**, K. Chandra, S. Prakash, (2017), "Studies on Erosion-corrosion behaviour of plasma sprayed Ni_3Al coating in a coal-fired thermal power plant environment at 540^oC," **Anti-Corrosion Methods and Materials**, Vol. 64 · No. 5, pp.540–549, (**Q2, SCI, Impact Factor 2.6**).
- K. Guru, T. Sharma, K.K. Shukla and **S.B. Mishra**, (2016), "Effect of Interface on the Elastic Modulus of CNT Nanocomposites," **ASCE's Journal of Nanomechanics and Micromechanics**, Vol. 6, issue 3. 10.1061/(ASCE)NM.2153-5477.0000109, 04016004, **(Q2, ESCI and Scopus indexed**).

- Kishore Guru, **S.B. Mishra** and K.K. Shukla, (2015), "Effect of temperature and functionalization on the interfacial properties of CNT reinforced nanocomposites," **Applied Surface Science,** Vol. 349, pp.59–65, (**Q1, SCI, Impact Factor 6.9**).
- **S.B. Mishra**, K. Chandra, S. Prakash, (2015), "Erosion–Corrosion Behaviour of Nickel and Iron Based Superalloys in Boiler Environment," **Oxidation of Metals**, Vol. 83, No.1-2, pp. 101-117, (**Q1/2, SCI, Impact Factor 2.2**).
- **S.B. Mishra**, S. Prakash, (2015), "Erosion-corrosion behaviour of Ni-20Cr plasma coating in actual boiler environment," **Surface Engineering**, Vol. 31, Issue 1, pp. 29-38, (**Q1, SCI, Impact Factor 2.8**).
- N.K Mishra, **S.B. Mishra,** R. Kumar, (2015), "Characterisation and oxidation of LVOF sprayed Al_2O_3-40%TiO_2 coating on superalloys," **Surface Engineering**, Vol. 31, Issue 5, pp. 349–353, (**Q1, SCI, Impact Factor 2.8**).
- N.K Mishra, **S.B. Mishra,** (2015), "Hot Corrosion performance of LVOF sprayed Al_2O_3-40% TiO_2 coating on Superni 601 and Superco 605 superalloys at 800 and 900°C," **Bulletin of Material Science,** Vol. 38, No. 7, pp.1679-1685, (**Q2, SCI, Impact Factor 2.1**).
- N.K. Mishra, **S.B. Mishra**, R. Kumar, (2014), "Oxidation Resistance of Low Velocity Oxy Fuel Sprayed Al_2O_3-13TiO_2 Coating on Nickel Based Superalloys at 800°C", **Surface and Coatings Technology**, Vol. 260, pp. 23-27, (**Q1, SCI, Impact Factor 6.1**).
- N.K Mishra, **S.B. Mishra,** (2014), "Characterisation and oxidation of LVOF sprayed Al_2O_3-40%TiO_2 Coating on superni 601 and superni 718 superalloys at 800 and 900^{o}C," **Corrosion Engineering, Science and Technology (Formerly British Corrosion Journal)**, Vol. 49, Issue 8 pp. 705-711, (**Q3, SCI, Impact Factor 2**).
- N.K. Mishra, A.K. Rai, **S.B. Mishra**, R. Kumar, (2014), "Hot Corrosion Behaviour of Detonation Gun Sprayed Stellite-6 and Stellite-21 Coating on Boiler Steel SAE 431 at 900^{o}C", **International Journal of Corrosion**, Vol. 2014, Article ID 146391, 4 pages. http://dx. doi.org/10.1155/2014/146391. Citation Index=01, (**Q3,** E**SCI and Scopus Indexed Journal, Impact Factor 1.5)**.
- N.K Mishra, Naveen Kumar, **S.B. Mishra,** (2014), "Hot Corrosion Behaviour of Detonation Gun Sprayed Al_2O_3 -40TiO_2 Coating on Nickel based superalloys at 900^{o}C," **Indian Journal of Materials Science**, Volume 2014, Article ID 453607, 5 pages, http://dx.doi.org/10.1155/2014/453607.
- **S.B. Mishra**, K. Chandra, S. Prakash (2013), "Erosion-corrosion performance of NiCrAlY coating produced by plasma spray process in a coal-fired thermal power plant," **Surface and Coatings Technology**, Vol. 216, pp. 23-34, (**Q1, SCI, Impact Factor 6.1**).
- **S.B. Mishra**, K. Chandra, S. Prakash (2013), "Dry sliding wear behaviour of Nickel-, Iron- and Cobalt- based superalloys," **Tribology - Materials, Surfaces & Interfaces**, Vol. 7, No. 3, pp. 122-128, (**Q3, ESCI, Impact Factor 2**).
- U.D. Gulhane, **S.B. Mishra,** P.K. Mishra, (2012), "Enhancement of Surface Roughness of 316L Stainless Steel and Ti-6Al-4V using Low Plasticity Burnishing: DOE Approach," **International Journal of Mechanical Engineering & Technology** (IJMET), Vol. 3, pp. 150-160 (**Q2, Scopus Indexed Journal)**.
- **S.B. Mishra**, K. Chandra and S. Prakash, (2008), "Characterisation and Erosion behaviour of NiCrAlY Coating Produced by Plasma Spray Method on two Different Ni-based superalloys," **Materials Letters**, Vol. 62, Issues 12-13, pp. 1999-2002, (**Q2, SCI, Impact Factor 3**).

- **S.B. Mishra**, K. Chandra, S. Prakash and B. Venkataraman, (2006), "Erosion Performance of Coatings Produced by Shrouded Plasma Spray Process on a Co-Base Superalloy," **Surface and Coatings Technology**, Vol. 201, pp. 1477-1487, (**Q1, SCI, Impact Factor 6.1**).
- **S.B. Mishra**, S. Prakash and K. Chandra, (2006), "Studies on Erosion Behaviour of Plasma Sprayed Coatings on a Ni-Based Superalloy," **Wear**, Vol. 260, Issue 4-5, pp.422-432, (**Q1, SCI, Impact Factor 6.1**).
- **S.B. Mishra**, K. Chandra and S. Prakash, (2006), "Characterisation and Erosion Behaviour of Plasma Sprayed NiCrAlY and Ni-20Cr Coatings on a Fe-based Superalloy," **ASME Journal of Tribology**, Vol. 128, pp. 469-475, (**Q1/2, SCI, Impact Factor 3**).
- **S.B. Mishra**, K. Chandra, S. Prakash and B. Venkataraman, (2005), "Characterisation and Erosion Behaviour of a Plasma Sprayed Ni_3Al Coating on a Fe-Based Superalloy," **Materials Letters**, Vol. 59, Issue 28, pp. 3694-3698, (**Q2, SCI, Impact Factor 3**).

Books Chapter

- Shivam Singh and **S. B. Mishra**, (2024), Analysis of Printing Parameters on the Performance of Robotic Gripper Jaws. In: C. V. Chandrashekara, N. Rajesh Mathivanan, K. Hariharan (eds) Recent Advances in Materials and Manufacturing, Proceedings of ISME 2023. Springer Nature Singapore Pvt Ltd. 2024, ISSN 2195-4356 ISSN 2195-4364 (electronic), ISBN 978-981-97-3653-9/ ISBN 978-981-97-3654-6 (eBook), https://doi.org/10.1007/978-981-97-3654-6, pp.281-292.
- N. Kumar, V. Kumar, **S.B. Mishra,** (2018), Oxidation and Hot Corrosion Performance of Al_2O_3-40%TiO_2 Coating on Nickel Based Superalloys at 800 °C. In: Antony K., Davim J. (eds) Advanced Manufacturing and Materials Science. Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Cham, ISBN 978-3-319-76276-0, pp.349-358, doi :https://doi.org/10.1007/978-3-319-76276-0_35.
- A. S. Yadav, **S.B. Mishra**, "Slurry erosive wear study of D-Gun sprayed coatings on SAE 431," Published in the International Conference on Control Computing Communication & Materials (ICCCCM) at Allahabad, 3-4 August 2013, Print ISBN: 978-1-4799-1374-9, INSPEC Accession Number:13880361, Digital Object Identifier :10.1109/ICCCCM.2013.6648923, pp. 1-5.

International Conferences

- Abhay Shankar Yadav, **S.B. Mishra** "Performance of HVOF-sprayed composite coatings against erosion on structural steel," presented and published in the International Conference on Advance Materials for Sustainable Future (ICAMSF-2025), organized by Chitkara University, Punjab, India held during March 28-29, 2025.
- Purushottam Mishra, **S.B. Mishra** "Microstructural and mechanical properties of microwave hybrid heating processed $FeCoCrNiTi_x$ high entropy alloy cladding," presented in the International Conference on Advance Materials for Sustainable Future (ICAMSF-2025), organized by Chitkara University, Punjab, India on March 28-29, 2025.
- Abhay Shankar Yadav, **S.B. Mishra**, "A Review on Application of Thermal Spray Coatings for Protection of Boiler Steels against Erosion-Corrosion Wear," accepted for presentation and publication in the Fourth International Federation of Heat Treatment and Surface Engineering (IFHTSE) Heat

Treatment and Surface Engineering Organized by ASM International Chennai Chapter in association with IIT Madras to be held at Chennai Trade Centre, Chennai, India during September 28-30, 2023.

- Manavendra Mishra, **S.B. Mishra**, and D. K. Shukla "Characterization of Ni-13%WC8Co microwave clad on AISI-316 steel," accepted for presentation and publication in the Fourth International Federation of Heat Treatment and Surface Engineering (IFHTSE) Heat Treatment and Surface Engineering Organized by ASM International Chennai Chapter in association with IIT Madras to be held at Chennai Trade Centre, Chennai, India during September 28-30, 2023.
- Abhishek Shakkar, **S. B. Mishra**, Design and Development of Low Speed Precision Cutter, Accepted for presentation in the International Conference on Digitization and Advancements in Materials and Metallurgical Industries (ICDAMMI) organized by MNIT, Jaipur from 19-20, August 2023.
- Shivam Singh, **S.B. Mishra**, "Analysis of Printing Parameters on the Performance of Robotic Gripper Jaws," Presented in the 21st ISME International Conference on Advances in Mechanical Engineering being jointly organized by PES University, Bengaluru and IIT Madras under the aegis of Indian Society of Mechanical Engineers (ISME), IITD, New Delhi from July 13-15, 2023.
- Prashant Pandey, **S.B. Mishra**, "An Overview on Oxidation, Hot Corrosion and Erosion Wear Behaviour of Welded Joints and its Prevention," presented and published in the Sixth Asian Conference on Heat Treatment and Surface Engineering Organized by ASM International Chennai Chapter in association with International Federation of Heat Treatment and Surface Engineering (IFHTSE) held at Chennai Trade Centre, Chennai, India during March 5-7, 2020.
- Manavendra Mishra, D. K. Shukla and **S.B. Mishra**, "An Overview on the Erosion Wear Behaviour of Microwave Cladding," presented and published in the Sixth Asian Conference on Heat Treatment and Surface Engineering Organized by ASM International Chennai Chapter in association with International Federation of Heat Treatment and Surface Engineering (IFHTSE) held at Chennai Trade Centre, Chennai, India during March 5-7, 2020.
- Srikant Tiwari, **S.B. Mishra**, "Corrosion of Stainless Steels and its Prevention through Surface Modifications for Biomedical Applications: A Review," presented and published in the International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (November 15-17, 2018) held at PUSSGRC, Hoshiarpur, Punjab, India.
- Amit Ranjan Hota, Prashant Kumar Singh, **S.B. Mishra**, "Finite element modelling of erosion parameters in boiler components," presented and published in the International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (November 15-17, 2018) held at PUSSGRC, Hoshiarpur, Punjab, India.
- Abhay Shankar Yadav, **S.B. Mishra**, "Slurry Erosion Wear Behaviour of Ceramic Coatings on AISI 431 Stainless Steel," accepted for presentation in the "Indian Conference on Applied Mechanics (INCAM) 2017" to be held at MNNIT Allahabad during 5-7 July 2017.
- Prashant Kumar Singh, **S.B. Mishra**, "Studies on Erosion Behaviour of SAE-208, SA-231-T12 Boiler Steels at Room Temperature," presented and published in the IVth International Conference on Production and Industrial Engineering, CPIE-2016 held at Department of Industrial and Production Engineering, Dr. B. R. Ambedkar National Institute of Technology Jalandhar-144011, India
- Prashant Kumar Singh, **S.B. Mishra**, "Studies on Erosion Behaviour of SA-213-T91 Boiler Steels at different temperatures," presented in the ICAMMP-IV, November 5-7, 2016 held at IIT Kharagpur.

- Abhay Shankar Yadav, **S.B. Mishra**, "Slurry Erosion Wear Behaviour of Detonation Gun Sprayed Al_2O_3-13TiO_2 and Al_2O_3-40TiO_2 Coatings On SAE 431 Stainless Steel," presented in the ICAMMP-IV, November 5-7, 2016 held at IIT Kharagpur.
- Alok Mishra, **S.B. Mishra**, "An overview on the effect of sonication parameters on the metallurgical, mechanical and viscoelastic properties of multi-walled carbon nanotube/epoxy composites," presented in the ICAMMP-IV, November 5-7, 2016 held at IIT Kharagpur.
- Kishore Guru, **S. B. Mishra**, K. K. Shukla, "Functionalization effect on the Interfacial bonding of Nanocomposites," Published in the proceedings of the International Conference on Multifunctional Materials, Structures and Applications (ICMMSA-2014) at MNNIT Allahabad, December 22-24, 2014, Published by McGraw Hill Education (India) Private Limited, pp. 59-62.
- A. Kaityar, A.S. Yadav, N.K. Mishra, **S.B. Mishra**, Slurry erosion wear of Detonation gun sprayed Stellite-6 and WC-Co coatings on AISI 201 and AISI 316 Stainless steels, Presented and published in the proceedings of 6th Asian Thermal Spray Conference (ATSC-2014) held during 24-26th November, 2014 in Hyderabad, India.
- N.K. Mishra, **S.B. Mishra**, R. Kumar, "Oxidation Resistance of Low Velocity Oxy Fuel Sprayed Al_2O_3-13TiO_2 Coating on Nickel Based Superalloys at 800^oC," Presented in the International Conference on Metallurgical Coatings and Thin Films [ICMCTF14] held from April 28 to May 2, 2014 at San Diego, CA, USA.
- Abhay Shankar Yadav, N.K. Mishra, **S.B. Mishra**, "Slurry Erosion Wear Performance of Detonation-Gun Sprayed Al_2O_3-13TiO_2 and Al_2O_3-40TiO_2 Coatings on SAE 304L Steel," Presented and Published in the Proc. of the International Conference on Advances in Tribology [ICAT14] at NIT Calicut, February 21-23, 2014.
- Tushar Sharma, Kishore Guru, **S. B. Mishra** and K. K. Shukla, "Evaluation of Mechanical properties of SWCNT and MWCNT using FE Simulation," Published in the Indian Conference on Applied Mechanics (INCAM) 2013 at IIT Madras, July 4-6, 2013.
- Vinay Kumar Sahu, N. K. Mishra, **S. B. Mishra**, "Effect of LVOF sprayed coating in Oxidation and Hot corrosion performance of Superco 605 at different temperatures," Published in the Proc. of the International Conference on Innovative Technologies in Mechanical Engineering (ICAME-2011) held at KIET, Ghaziabad From August 24-25, 2012.
- Mithilesh Kumar Dixit, **S. B. Mishra**, "Investigation of Elastic Modulus of Epoxy DGEBA cured with DETDA by Molecular Dynamics," Published in the Proc. of the 5th Int. Conf. on Advances in Mechanical Engg. (ICAME-2011) held at SVNIT, Surat from June 06-08, 2011.
- Prem Pratap Jadon, **S. B. Mishra**, "Influence of Aspect Ratio and CNT Matrix Interphase in Carbon Nanotubes Reinforced Composites by using FEM," Published in the Proc. of the 5th Int. Conf. on Advances in Mechanical Engg. (ICAME) held at SVNIT, Surat from June 06-08, 2011.
- Chetan Badiger, Mukul Shukla and **S. B. Mishra**, "Prediction of Young's modulus of Defective Single wall Carbon Nanotubes using Finite Element Analysis," Proceedings of International Conference on Carbon Nanotechnology Potential and Challenges, held at Indian Institute of Technology Kanpur, December 15-17, 2010.
- U.D. Gulhane, M. Roy, S.G. Sapate, **S.B. Mishra** and P.K. Mishra, "Influence of surface treatment of high carbon steel on the reciprocating wear in comparison with the 316 stainless steel," Proceedings of ASME/STLE Int. Joint Tribology Conference, IJCT, Memphis, Tennessee USA; Oct.19-21,2009.
- **S.B. Mishra**, K. Chandra and S. Prakash, (2005), "Solid Particle Erosion Behaviour of Plasma Sprayed Coatings on a Fe-Based Superalloy," Presented and Published in the Proc. of the "World

Tribology Congress III", held at Washington Hilton, Washington D.C., USA, on September 12-16, paper no. WTC2005-63877, p.42.

- **S.B. Mishra**, S. Prakash and K. Chandra, (2005), "Characterisation and Erosion of Plasma Sprayed Coating on a Ni-Based Superalloy," Presented and Published in the Proc. of the "Conference on Materials Degradation: Innovation, Inspection, Control and Rehabilitation", held at METSOC, Calgary, Alberta, Canada on August 21-24, pp. 403-414.
- **S. Mishra**, S. Prakash and K. Chandra, (2005), "Solid Particle Erosion Behaviour of a Plasma Sprayed Ni_3Al Coating on a Fe-Based Superalloy," Presented and published in the proceedings of MATERIAIS 2005 - III International Materials Symposium and XII Portuguese Materials Society Meeting, held at University of Aveiro, Portugal pp.299.
- **S.B. Mishra**, S. Prakash and K. Chandra, (2004), "Characterisation of Plasma Sprayed NiCrAlY, Ni-20Cr And Ni_3Al Coatings on a Ni-Based Superalloy Inconel 718," Presented and publ. in the proceedings of the 'International Symposium of Research Students on Material Science and Engineering', held at Met. and Mat. Engg. Dept., Indian Institute of Technology Madras, Chennai, Dec. 20-22, 2004, pp.1-8.
- **S.B. Mishra**, S. Prakash and K. Chandra, (2004), "Erosion of Some Superalloys and Role of Plasma Spray Coatings –A Review," Presented and publ. in the proc. of the Indo Japan Conf. on Damage Tolerant Design and Materials, held at Mech. Engg. Dept., Indian Institute of Technology Madras, Chennai, Dec. 16-18, 2004, pp.220-225.
- R.K.P. Singh, **S.B. Mishra**, D.B. Moharil and S.G. Sapate, (2003), "Elimination of Cold Shear Breakage Problem in Silicon Manganese Spring Steel Flats/ Rounds," Asia Steel International Conference- 8^{th} to 12^{th} April 2003, Jamshedpur, Presented and published in the proceedings, Vol.3, pp. 3.d.4.1-3.d.4.8.

National Conferences

- N.K. Mishra, **S.B. Mishra**, "The Technology – a solution to Oxidation and Hot Corrosion," National Conference on challenges & Opportunities for Technology Innovation in India (COTTI-2013), 16th Feb. 2013, Ambalika Institute of Management & Technology, Lucknow.
- Santosh Kumar , N. K. Mishra, **S.B. Mishra**, "Role of HVOF sprayed coating of WC-Co-Cr, NiCrSiB on slurry erosion wear of AISI 304 & 316 substrates," National Conference on challenges & Opportunities for Technology Innovation in India (COTTI-2013), 16th Feb. 2013, Ambalika Institute of Management & Technology, Lucknow.
- Naveen Kumar, **S.B. Mishra**, "Effect of composite coatings on high temperature oxidation and hot corrosion of superalloys at different temperatures: a review," National Conference on challenges & Opportunities for Technology Innovation in India (COTTI-2013), 16th Feb. 2013, Ambalika Institute of Management & Technology, Lucknow.
- Abhay Shankar, **S.B. Mishra**, "Role of detonation gun sprayed coatings in improving slurry erosion wear resistance of alloy steels : a review," National Conference on challenges & Opportunities for Technology Innovation in India (COTTI-2013), 16th Feb. 2013, Ambalika Institute of Management & Technology, Lucknow.
- N.K. Mishra, **S.B. Mishra**, Saurabh Dixit, "Nanotechnolgy: Towards Tiny Tech Age," Conference on Nanotechnology, 2008, MIT, Mooradabad, U.P.
- **S.B. Mishra**, K. Chandra and S. Prakash, "Solid Particle Erosion Behaviour of Plasma Sprayed Coatings," Published in the proceedings of MetaVista–2005 symposium (16^{th}-18^{th} Feb. 2005), held at Department of Metallurgical Engineering, Institute of Engineering & Technology, Pune-411005, Maharashtra, India.