

## Agnel Charities

Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, Maharashtra

### Paper/Journal Publications

#### Calendar Year 2021

1. **Sanjay W. Rukhande** and Ganesh Bile, "Investigation of Friction and Sliding Wear for Journal Bearing Using Taguchi Optimization," IEEE publication, 2021, <https://doi.org/10.1109/ICNTE51185.2021.9487703>.
2. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale, "High-temperature tribological investigation of APS and HVOF sprayed NiCrBSiFe coatings on SS 316L" in Tribology- Materials, Surfaces & Interfaces, 2021, <http://dx.doi.org/10.1080/17515831.2021.1898887>
3. **Sanjay W. Rukhande** and Walmik S. Rathod, "Sliding wear investigation of Ni-based coating for high-temperature application", Tribology in Industry, 2021 <https://doi.org/10.24874/ti.945.08.20.11>
4. **Sanjay W. Rukhande** and Walmik S. Rathod, "Ni-based coating protection of 316L stainless steel at dry, elevated temperature and wet sliding condition", 9th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (December 9-11, 2021), IIT, Ropar, India.
5. **Sanjay W. Rukhande** and Nikhil Kunder., "Investigation of Ni-based coating on SS 316L in water cooled nuclear reactor", 9th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (December 9-11, 2021), IIT, Ropar, India.
6. **Sanjay W. Rukhande** and Swaraj Gujar., "The surface properties enhancement using coating-: A Review", 9th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (December 9-11, 2021), IIT, Ropar, India.
7. **Sanjay W. Rukhande**, Ganesh Bile and Rathod, Walmik S., "Investigation of friction and sliding wear for journal bearing using Taguchi optimization", in an international conference "ICNTE 2021", Organized by Fr. Conceicao Rodrigues Institute of Technology, Vashi, Navi Mumbai during 15, 16 January 2021.
8. **Sanjay W. Rukhande** and Walmik S. Rathod, "Ni-based coating protection of 316L stainless steel against sliding" in National Conference, organized by ASME, student chapter, Veermata Jijabai Technological Institute, Mumbai on 7th Feb 2021.

## Calendar Year 2020

9. **Sanjay W. Rukhande** and Walmik S. Rathod, “Tribological Behaviour of Plasma and HVOF-sprayed NiCrSiBFe Coatings”, Surface Engineering, 2020, <https://doi.org/10.1080/02670844.2020.1730062> .
10. **Sanjay W. Rukhande** and Walmik S. Rathod, “An isothermal oxidation behaviour of atmospheric plasma and high-velocity oxy-fuel sprayed nickel based coating”, Ceramics International, 2020, <https://doi.org/10.1016/j.ceramint.2020.04.155>.
11. **Sanjay W. Rukhande** and Walmik S. Rathod, “Dry Sliding Wear Behavior of HVOF Sprayed NiCrSiBFe Coating on SS 316L”, Materials Today: Proceedings, 2020, <https://doi.org/10.1016/j.matpr.2020.08.408>
12. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale, "High temperature erosion behaviour of SS 316L, APS and HVOF sprayed WC-Cr<sub>3</sub>C<sub>2</sub>-Ni coatings", Wear, 2020, <https://doi.org/10.1016/j.wear.2020.203520>
13. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale, "High-temperature tribo-behaviour of Ni-alloy and WC-Cr<sub>3</sub>C<sub>2</sub>-Ni coatings for nuclear applications"; Surfaces and Interfaces, 2020, <https://doi.org/10.1016/j.surfin.2020.100689>
14. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale, "Effect of counter faces on sliding wear behavior of WC-Cr<sub>3</sub>C<sub>2</sub>-Ni composite coating deposited by high velocity oxy fuel"; Materials Today: Proceedings, 2020, <https://doi.org/10.1016/j.matpr.2020.08.466>
15. **Sanjay W. Rukhande**, and Rathod, Walmik S., “High-Velocity Oxy-Fuel sprayed Ni-based coating for isothermal oxidation”, International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (December 19-20, 2020), IIT, Ropar, India.

## Calendar Year 2019

16. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale, "Sliding wear behavior of high velocity oxy-fuel sprayed WC-Cr<sub>3</sub>C<sub>2</sub>-Ni coating for automotive applications"; Materials Today: Proceedings, 2019, <https://doi.org/10.1016/j.matpr.2019.07.609>
17. **Sanjay W. Rukhande** and Walmik S. Rathod, “Dry Sliding Wear Behaviour of HVOF Sprayed NiCrSiBFe Coating on SS 316L” in an international conference “AFTMME-2019”, 7th international conference on Advancement and Futuristic Trends in Mechanical and Materials Engineering Organized by Indian Institute of Technology, Ropar, during 5 December to 7 December 2019.

18. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale, “Effect of Counter faces on Sliding Wear Behaviour of WC-Cr<sub>3</sub>C<sub>2</sub>-Ni composite coating deposited by High Velocity Oxy Fuel” in an international conference “AFTMME-2019”, 7th international conference on Advancement and Futuristic Trends in Mechanical and Materials Engineering Organized by Indian Institute of Technology, Ropar, during 5 December to 7 December 2019.
19. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale, “Sliding wear behavior of high velocity oxy fuel sprayed WC-Cr<sub>3</sub>C<sub>2</sub>-Ni coating for automotive applications” in an international conference on Manufacturing, Material science & Engineering, (ICMMSE-2019) conducted by the Department of Mechanical Engineering, CMR Institute of Technology, Hyderabad, Telangana during 16th & 17th August, 2019.
20. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale, “Tribo-Behaviour of Plasma and HVOF Sprayed NiCrSiBFe Coating on SS 316L” in an international conference “ICMPT-2019”, Organized by Indian Institute of Technology, Madras, Chennai, India during 11 July to 13 July 2019.
21. **Sanjay W. Rukhande**, Siddhesh Kulkarni, Aditya Patil and Noel Louis, “Investigation of Disc Brake Squeal using FE Simulation and Experimentation” in the National Conference on Sustainable Manufacturing & Waste Management (NCSMWM-2019) in Saraswati College of Engineering, Navi Mumbai on April 16, 2019. (IJSER- ISSN 2229-5518 )
22. **Sanjay W. Rukhande** and Chirag Wani, “Vibration based detection of damage in fixed-fixed I-Beam using Particle Swarm Optimization” in an international conference “ICNTE 2019”, Organized by Fr. Conceicao Rodrigues Institute of Technology, Vashi, Navi Mumbai during 4, 5 January 2019.

### **Calendar Year 2018**

23. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale, “Tribological Behavior of Thermally Sprayed Coating- a review” in an international conference “TRIBO INDIA 2018”, Organized by Veermata Jijabai Institute of Technology, Matunga, Mumbai during 13 December to 15 December 2018.
24. **Sanjay W. Rukhande**, Walmik S. Rathod and Digvijay G. Bhosale, “Wear and oxidation behavior of Tungsten Carbide based Coating- a review” in an international conference “TRIBO INDIA 2018”, Organized by Veermata Jijabai Institute of Technology, Matunga, Mumbai during 13 December to 15 December 2018.

## Calendar Year 2017

25. **Sanjay W. Rukhande** and Girish Dalvi, “Automated storage and Retrieval System”, in "International Research Journal of Engineering and Technology, (IRJET), Volume 4, Issue 1, January 2017 .ISSN : 2395-0056 (<https://www.irjet.net/archives/V4/i1/IRJET-V4I1111.pdf>)
26. **Sanjay W. Rukhande** and Walmik S. Rathod, “Indian Rail Track Investigation and Dynamic Analysis of Track Structure”, in international Conference on Advances in thermal Systems, Materials and Design Engineering “(ATSMDE 2017) at VJTI, Mumbai on 26th and 27th December 2017 ( [https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3101403](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3101403))
27. **Sanjay W. Rukhande** and Aniket Shirke, “Parametric Optimization of Fused Deposition Modelling (FDM) Process Using PSO Algorithm”, in international Conference on Advances in thermal Systems, Materials and Design Engineering “(ATSMDE 2017) at VJTI, Mumbai on 26th and 27th December 2017. ([https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3101978](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3101978))

## Calendar Year 2016- 2008

28. **Sanjay W. Rukhande**, Manas Lad, Prabhat Mahamuni, Prachi Mandve and Savio Sequeria, “Design and Fabrication of Automated Shelves”, in "International Journal of Innovative Research in Technology, (IJIRT), Paper ID: 143382, Volume 2, Issue 11, April 2016. ISSN : 2349-6002 ([https://www.ijirt.org/master/publishedpaper/IJIRT143382\\_PAPER.pdf](https://www.ijirt.org/master/publishedpaper/IJIRT143382_PAPER.pdf))
29. **Sanjay Rukhande**, Nikesh Ghude, Abhishek Malve, Kevin Kotian and Mohit Thawani, “Investigation of Muffler for Noise reduction” in international conference (ICMTEST-2016) Vishwatmak Om Gurudev college of Engineering at: Aghai, , Dist: Thane. on 9th April 2016. ([https://ijritcc.org/download/conferences/ICMTEST\\_2016/ICMTEST\\_2016\\_Track/1461912295\\_29-04-2016.pdf](https://ijritcc.org/download/conferences/ICMTEST_2016/ICMTEST_2016_Track/1461912295_29-04-2016.pdf))
30. **Sanjay W. Rukhande**, Suraj P. Nagabhushana, Prakash Thorat and Gourav Thombre “Two Phase Flow Analysis for Vertical Pipe”, in "International Journal of Innovative and Emerging Research in Engineering (IJIERE), Paper ID: 160091, Volume 2, Issue 2, Feb 2015. ISSN (Online) : 2394-3343, ISSN ( Print): 2394-5494 (<http://www.ijiere.com/DisplayPaper.aspx?id=160091&AspxAutoDetectCookieSupport=1>)

31. **Sanjay W. Rukhande**, Nilesh V., Bipin M., Akshay V., Vishal M., Mayur K. and Amar Ingle, “Experimentation and Testing of an OP-AMP operated Solar Tracking Mechanism” in International Research Journal of Engineering and Technology (IRJET), Volume: 02 Issue: 07 | Oct-2015 ,ISSN: 2395-0056 (<https://www.irjet.net/archives/V2/i7/IRJET-V2I7120.pdf>)
32. **Sanjay Rukhande**, Zaid Shaikh, Sushant Ugale and Anuja Vekhande, “Muffler Modification for Noise Reduction”, in "International Conference on Civil, Mechanical, Biological& Medical Engineering, at Nagpur Organized by IRD India on 20th April, 2014, ICMBME/ Volume II
33. **Sanjay Rukhande** and Nanaji Kshirsagar, “The Fault Diagnosis in Rolling Element Bearings- A Review”, in "International Journal Of Innovations In Mechanical And Automobile Engineering" (IJIMAE) / March-2012 / ISSUE-II / ISSN: 2249-2968
34. **Sanjay Rukhande** and Nilesh Ghongade, “Three-Dimensional Geometric Model of Knee Implants by Reverse Engineering” in the National Conference on Technologies for physically challenged in Lokmanya Tilak College of Engineering, Navi Mumbai on October 13, 2012 (ISBN 978-81-924815-4-6)
35. **Sanjay Rukhande**, Shamim Pathan, Pratik Lahane, Vijay Patil, Devendra Mhatre, Ashish Gosavi “Condition Monitoring for Fault Diagnosis of Bearings” in the Proceedings of the NCNTE-2012, Third Biennial National Conference on Nascent Technologies in Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, Feb 24-25, 2012.
36. **Sanjay Rukhande**, Shamim Pathan, Aditya Kamble, Pratik Kale, Pankaj Daga and Sagar Pandita, “Design and Development of Micro Savonius Type VAWT”, Proceedings of the NCNTE-2012, Third Biennial National Conference on Nascent Technologies Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, Feb 24-25, 2012 (<https://pdfcoffee.com/design-and-development-of-micro-savonius-pdf-free.html>)
37. **Sanjay Rukhande**, Nanaji Kshirsagar and Sachin Bhatt, “FE analysis of three strut temerity structure” in an international conference in ICAET 2011, EGS Pillai College of Engg, Nagapattinam, Tamilnadu, India, during May 27, 2011.
38. **Sanjay Rukhande**, Sachin Kulkarni, Sachin Mastud, “Design of a Spur Gear through Parametric Modeling Approach” in SABBATICAL-2011, at Bharat Ratna Indira Gandhi College of Engg. Solapur, Maharashtra, during March 26-27, 2011.
39. **Sanjay Rukhande**, Saikiran Garimella, “Design and Development of Savonius type Micro VAWT” in a national conference at PVPIT, Budhgaon, Sangli, Maharashtra on March 5, 2011.

40. **Sanjay Rukhande** and Sachin Bhatt “Analysis for Form Finding of Three Strut Tensegrity Structure” in a national conference AMEE-2010, at Annasaheb Dange College of Engg. Ashta, Sangli, Maharashtra during July 2nd and 3rd, 2010.
41. **Sanjay Rukhande** and Shamim Pathan “Design of Cold Storage using Nitrile Rubber” at Fr. C.R.I.T. Vashi, Navi Mumbai in NCNTE 2010 during February 25 - 26 , 2010.
42. **Sanjay Rukhande** and Bipin Mashilkar, “CFD Analysis for Heat Transfer Enhancement in a rectangular solar Air Heater Duct by using Artificial Roughness” in NCSAME-2009 at JNTU University Hyderabad College of Engg. Hyderabad during August 20, 21, 2009.
43. **Sanjay Rukhande** and Vilas Kalamkar, “FE Analysis for Rail Wheel Assembly of EOT Crane” in NUCONE 2008, 3rd National Conference in Institute of Technology, Nirma University, Ahmedabad, Gujarat during 27-29 Nov 2008.