

**Dr. SHARNAPPA JOLADARASHI**

Associate. Professor, Mechanical Engineering Department, National Institute of Technology, Surathkal  
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**Academic Profile**

2005- 2008	Doctor of Philosophy, Machine Design (Mechanical engineering), <b>Indian Institute of Technology Madras. (I.I.T.M)</b> <b>Chennai - 600036, Tamil Nadu.</b> CGPA: <b>9.5/10.00</b>
2001- 2003	Master of Technology, Advanced Manufacture Engineering (Mechanical engineering), <b>N.I.T.K Surathkal (Formerly KREC)</b> Percentage: <b>79.22</b>
1996-2000	Bachelor of Engineering, Mechanical Engineering, <b>S.L.N.C.E Raichur, Gulbarga University, Karnataka.</b> Percentage: <b>68.42</b>

**Professional Experience**

**1. Sept 2019 to Till date**

Designation : Associate Professor

Organization : National Institute of Technology Surathkal (NITK), Karnataka, India.

**2. March 2015 to Sept 2019**

Designation : Asst. Professor

Organization : National Institute of Technology Surathkal (NITK), Karnataka, India.

**3. August 2010 to March 2015**

Designation : Senior Analyst

Company : QuEST Global Engineering Pvt Ltd, Bristol, UK.

**4. August 2008 to August 2010**

Designation : Analyst

Company : QuEST Global Engineering Pvt Ltd, Bangalore, India.

**5. April 2003 to Dec 2004**

Designation : Lecturer (Contract basis)

Company : National Institute of Technology Surathkal, Karnataka, India.

### Core subjects:

1. Applied Finite Element (FEM)
2. Composite materials
3. Theory of vibrations
4. Theory of Shells
4. Machine Design

### Soft Skills

- |                        |  |
|------------------------|--|
| 1. CAE Software        | <b>PATRAN, NASTRAN, LS-Dyna, HYPERMESH. BRAVA READER</b> |
| 2. Programming         | <b>LAP, FORTRAN. STAT17- MIL HDBK.</b>                   |
| 3. Presentation Skills | <b>MS WORD, MS Power Point, MS Excel, MathCAD</b>        |
| 4. Operating Systems   | <b>MS Windows 98/2000/XP.</b>                            |

### Training

- **Six sigma project training (QuEST).**

### Sponsored Research Projects:

1. **Dr. Sharnappa Joladarashi, Principal Investigator** and Dr. Hemantha kumar, Co- Principal Investigator, *Experimental investigation of passive, semi-active and active vibration control of composite sandwich structure, Funding:Rs:50.5Lakhs*, DST Funded Project under ECR Scheme- [ECR/2016/001448]
2. Dr. Hemantha kumar, Principal Investigator and **Dr. Sharnappa Joladarashi, Co- Principal Investigator (along with other 6 Co-PIs)**, *Development of Cost Effective Magneto-Rheological (MR) Fluid Damper in Two wheelers and Four Wheelers Automobile to Improve Ride Comfort and Stability'*, *Funding:Rs:355 Lakhs*, Funding Agency: Ministry of Human Resource Development, Govt. of India and Ministry of Road Transport and Highways under IMPRINT Scheme- [IMPRINT/2016/7330]

### Publications:

#### International Journals:

1. Vishwas Mahesh, **Sharnappa Joladarashi** and Satyabodh M Kulkarni. (2019) "An Experimental Study on Adhesion, Flexibility, Interlaminar Shear Strength and Damage Mechanism of Jute/Rubber Based Flexible 'Green' Composite", *Journal of Thermoplastic Composite Materials*, DOI: 10.1177/0892705719882074 (SCIE Indexed, IF:1.343 and Scopus Indexed).
2. Srikumar Biradar, **Sharnappa Joladarashi** and S M Kulkarni.(2019) "Tribo-mechanical and physical characterization of filament wound glass/epoxy composites". *Materials Research Express* (IF 1.44), (2019), DOI: 10.1088/2053-1591/ab3685.
3. Vishwas Mahesh, **Sharnappa Joladarashi** and Satyabodh M Kulkarni. (2019). "Development and mechanical characterization of novel polymer-based flexible composite and optimization of stacking sequences using VIKOR and PSI techniques", *Journal of Thermoplastic Composite Materials*, <https://doi.org/10.1177/0892705719864619> (SCIE Indexed, IF:1.343 and Scopus Indexed).
4. Vishwas, M., **Sharnappa Joladarashi** and S M Kulkarni. "Comparative Study on Damage Behaviour of Synthetic and Natural Fiber Reinforced Brittle Composite and Natural Fiber Reinforced Flexible Composite Subjected to Low Velocity Impact", *ScientiaIranica, Transaction*

- on Mechanical Engineering B (IF: 0.71), (Accepted and in press), DOI: 10.24200/sci.2018.51294.2100.
5. Vishwas Mahesh, **Sharnappa Joladarashi** and Satyabodh M Kulkarn. "An Experimental Investigation on Low-Velocity Impact Response of Novel Jute/ Rubber Flexible Bio-Composite", Composite Structures (IF 4.8), 2019, doi.org/10.1016/j.compstruct.2019.111190.
  6. Vishwas Mahesh, **Sharnappa Joladarashi** and Satyabodh M Kulkarni. "Study on Stacking Sequence of Plies in Green Sandwiches for Low Velocity Impact Application", Key Engineering Materials (2019), doi:10.4028/www.scientific.net/KEM.801.59.
  7. Vishwas Mahesh, **Sharnappa Joladarashi** and Satyabodh M Kulkarni. "Experimental study on abrasive wear behaviour of flexible green composite intended to be used as protective cladding for structures", International Journal of Modern Manufacturing Technologies (IJMMT), 2019.
  8. Prasad, C. Durga, **Sharnappa Joladarashi**, M. R. Ramesh, M. S. Srinath, and B. H. Channabasappa. "Effect of microwave heating on microstructure and elevated temperature adhesive wear behavior of HVOF deposited CoMoCrSi-Cr<sub>3</sub>C<sub>2</sub> coating, Surface & Coatings Technology, 374 (2019) 291–304. <https://doi.org/10.1016/j.surfcoat.2019.05.056>.
  9. M N Aruna, M R Rahman , **Sharnappa Joladarashi** and Hemantha Kumar. "Influence of additives on the synthesis of carbonyl iron suspension on rheological and sedimentation properties of magnetorheological (MR) fluids, Materials Research Express 6, (2019). <https://dx.doi.org/10.1088/2053-1591/ab1e03>.
  10. Vishwas Mahesh, **Sharnappa Joladarashi** and S M Kulkarni. "Physio-mechanical and wear properties of novel jute reinforced natural rubber based flexible composite, *Materials Research Express* 6, (2019). <https://doi.org/10.1088/2053-1591/ab0164>.
  11. Rangaraj Madhavrao Desai, Mohibb E. HussainJamadar, Hemantha Kumar, **SharnappaJoladarashi** and S. C. Raja Sekaran. "Design and experimental characterization of a twin-tube MR damperfor a passenger van", Brazilian Society of Mechanical Sciences and Engineering (IF 1.74), 2019.
  12. Prasad, C. Durga, **Sharnappa Joladarashi**, M. R. Ramesh, M. S. Srinath, and B. H. Channabasappa. "Development and Sliding Wear Behavior of Co-Mo-Cr-Si Cladding through Microwave Heating, Silicon (2019). <https://doi.org/10.1007/s12633-019-0084-5>.
  13. PradeepVBadiger , Vijay Desai,MR Ramesh , **Sharanappa Joladarashi** and Hemanth Gourkar, "Tribological behaviour of monolayer and multilayer Ti-based thin solid films deposited on alloy steel", Mater. Res. Express 6 (2019) 026419
  14. Prasad, C. Durga, **Sharnappa Joladarashi**, M. R. Ramesh, M. S. Srinath, and B. H. Channabasappa. "Microstructure and tribological behavior of flame sprayed and microwave fused CoMoCrSi/CoMoCrSi-Cr<sub>3</sub>C<sub>2</sub> coatings" *Materials Research Express*, 6 (2019) 026512, <https://doi.org/10.1088/2053-1591/aaebd9>.
  15. Vishwas, M., **Sharnappa Joladarashi** and S M Kulkarni. "Investigation on effect of using rubber as core material in sandwich composite plate subjected to low velocity normal and oblique impact loading", ScientiaIranica, Transaction on Mechanical Engineering B (IF: 0.71), 2018, 10.24200/sci.2018.5538.1331
  16. Vishwas, M., **SharnappaJoladarashi** and S M Kulkarni. "Experimental Investigation on Slurry Erosive Behaviour of Biodegradable Flexible Composite and Optimization of Parameters using Taguchi's Approach", Journal of Composite and Advanced Materials (Revue des Composites et des MatériauxAvancés), 2018.
  17. Prasad, C. Durga, **Sharnappa Joladarashi**, M. R. Ramesh, M. S. Srinath, and B. H. Channabasappa. "Influence of microwave hybrid heating on the sliding wear behaviour of HVOF sprayed CoMoCrSi coating." *Materials Research Express* Vol. 5, no. 8 (2018).
  18. Vinyas, Subhas Chandra Kattimani and **Sharnappa Joladarashi**. "Hygrothermal coupling analysis of magneto-electroelastic beams using finite element methods." *Journal of Thermal Stresses*.2018; Vol. 41: pp.1063-1079.
  19. **Sharnappa**, N. Ganesan and Raju Sethuraman "Buckling and Free Vibrations of Sandwich General shells of Revolution with Composite facings and Viscoelastic core under Thermal Environment using Semi-analytical Method." *Computer modeling in engineering and Science*.2007; Vol. 18(2): pp.121-144.

20. **Sharnappa**, N. Ganesan and Raju Sethuraman “Dynamic modeling of active constrained layer damping of composite beam under thermal environment.” *Journal of Sound and Vibration*.2007; Vol. 305:pp.728-749.
21. **Sharnappa**, N. Ganesan and Raju Sethuraman “Buckling, Free Vibration analysis of magnetic constrained layer damping (MCLD) beam”, *Finite Elements in Analysis and Design*, 2009; Vol. 45(3): pp.156-162.
22. **Sharnappa**, N. Ganesan and Raju Sethuraman “Thermally induced vibrations of piezo-thermo-viscoelastic composite beam with relaxation times and system response.” *Multidiscipline Modeling in Materials and Structures*,2010; Vol. 6 Iss: 1, pp.120 - 140.

#### National Journals:

1. Vinay M and **Sharnappa Joladarashi**. “Effect of stress concentration factor on threaded hole under different loading conditions using transfer functions." *Manipal J. Sci. Tech.*, 2017; vol.2(2), 32-39.

#### International Conferences:

1. Vishwas Mahesh, **Sharnappa Joladarashi** and Satyabodh M Kulkarni, “Influence of Laminate Thickness and Impactor Shape on Low Velocity Impact Response of Jute-Epoxy Composite: FE Study”, the 2nd International Conference on Recent Advances in Materials and Manufacturing Technologies (IMMT 2019), November 20th to 22nd, 2019, BITS Pilani. Dubai Campus, UAE.
2. S. Kattimani, **Sharanappa J.** and Vinyas M. Geometrically nonlinear vibration attenuation of functionally graded magneto-electro-elastic shells. ASME Conference on Smart Materials Adaptive Structures and Intelligent Systems (SMASIS 2019)” **September 9-11, 2019. Louisville, KY, USA**
3. Vishwas Mahesh, **Sharnappa Joladarashi** and Satyabodh M Kulkarni, “Slurry Erosive Study and Optimization of Material and Process Parameters of Single and Hybrid Matrix Flexible Composites using Taguchi Approach”, July 25-26, 2019, 2<sup>nd</sup> International Conference on Emerging Research in Civil, Aeronautical and Mechanical Engineering (ERCAM 2019), Nitte Meenakshi Institute of Technology, Bengaluru (Received Best Paper Award).
4. Nirmalkumar R, Ravikiran Kadoli and **Sharnappa Joladarashi**, “Transverse Deflection and Vibration of Curved Sandwich Beam” *13-15 June. 2019, International Conference on Applied Mechanics and Optimisation*". Mar Baselios college of Engg & Tech. Thiruvananthapuram, India.
5. Sai Krishnan A Nair, **Sharnappa Joladarashi**, and Nithin Ganesh, “Evaluation of ultrasonic sensor in robot mapping”, 3<sup>rd</sup> International Conference on Trends in Electronics and Informatics, 2019 (ICOEI 2019), April 23-25, 2019, SCAD College of Engineering and Technology, Tirunelveli, India.
6. Rangaraj Madhavrao Desai, Mohibb E Hussain Jamadar, Hemantha Kumar, **Sharnappa Joladarashi**, Rajasekaran S C and Amarnath G, “Evaluation of a Commercial MR Damper for Application in Semi-active Suspension”, International Conference on Advances in Mechanical Engineering and Nanotechnology, 2019 (ICAMEN 2019), March 8-9, 2019, Manipal University, Jaipur, India. (Received Best Paper Award)
7. Vishwas Mahesh, **Sharnappa Joladarashi** and S M Kulkarni, “Study on Stacking Sequence of Plies in Green Sandwiches for Low Velocity Impact Application”, 4th International Conference on Composite Materials and Material Engineering, 2019 (ICCMME 2019), January 19-22, 2019, Tokyo University of Science, Kagurazaka campus, Tokyo, Japan.
8. Srikumar Biradar, **Sharnappa J** and S M Kulkarni, “FE Analysis of FRP Pressure Vessel”, 4th International Conference on Composite Materials and Material Engineering, 2019 (ICCMME 2019), January 19-22, 2019, Tokyo University of Science, Kagurazaka campus, Tokyo, Japan.

9. Vishwas Mahesh, **Sharnappa Joladarashi** and Satyabodh M Kulkarni, "Comparative Study on Energy Absorbing Behavior of Stiff and Flexible Composites under Low Velocity Impact", 2nd International Conference on Polymer Composites (ICPC 2018), December 15-16, 2018, National Institute of Technology Karnataka, Surathkal, Mangalore 575025, India. (AIP Conference Proceedings)
10. Bharath J, **Sharnappa Joladarashi** N Surya Rao and Hemantha Kumar, "Investigation of Static and Dynamic Properties of Cenosphere Reinforced Polymer Matrix Composite Beams", 2nd International Conference on Polymer Composites (ICPC 2018), December 15-16, 2018, National Institute of Technology Karnataka, Surathkal, Mangalore 575025, India. (AIP Conference Proceedings)
11. Srikumar Biradar, **Sharnappa Joladarashi**, Sangemsh Rajole, Shivashankar H and Satyabodh M Kulkarni, "Comparative Study on Filament Wounded and Laminated GFRP Composites for Tensile Characterization ", 2nd International Conference on Polymer Composites (ICPC 2018), December 15-16, 2018, National Institute of Technology Karnataka, Surathkal, Mangalore 575025, India. (AIP Conference Proceedings)
12. Vishwas M, **Sharnappa Joladarashi** and S M Kulkarni, "Suitability Study of Jute-Epoxy Composite Laminate for Low and High Velocity Impact Applications", *International conference on Design, Materials and Manufacture (IcDEM 2018)*, January 29-31, 2018, National Institute of Technology Karnataka, Surathkal, Mangalore 575025, India.
13. Aruna M N, M.R. Rahman, **Sharnappa Joladarashi** and Hemantha Kumar Investigating Sedimentation and Rheological properties of Magneto-rheological fluids using various carrier fluids: International Conference on Advances in Materials and Manufacturing applications (IConAMMA) August 16 -18, 2018 Bangalore, India. (IOP Conference Proceeding: Materials Science and Engineering).(Accepted for publication).
14. Bharath, J., **Sharnappa Joladarashi**, Srikumar Biradar, and P. Naveen Kumar. "Frequency and deflection analysis of cenosphere/glass fiber interply hybrid composite cantilever beam." In *American Institute of Physics Conference Series*, vol. 1943, no. 2. 2018.
15. Vishwas M, **Sharnappa Joladarashi** and S M Kulkarni. "Finite element simulation of low velocity impact loading on a sandwich composite", *International conference on Research in Mechanical Engineering Sciences (RiMES 2017)*, 21<sup>st</sup> to 23<sup>rd</sup> December 2017, Manipal Institute of Technology, Manipal, Karnataka, India.
16. C D Prasad, **Sharnappa Joladarashi**, M R Ramesh , B H Channabasappa, " Effect of Intermetallic Laves Phases on Elevated Temperature Wear Behavior of HVOF Sprayed Co-Mo-Cr-Si Coating", In *TACT2017 International Thin Films Conference National Dong Hwa University, Hualien, Taiwan*, 2017.
17. V Badiger , V Desai, M R Ramesh, **Sharnappa Joladarashi**, "Fretting wear behavior of monolayer and multilayer Ti-Based coatings developed on alloy steel", In *TACT2017 International Thin Films Conference National Dong Hwa University, Hualien, Taiwan*, 2017.
18. Rangaraj deasi, Nikhil.V C,Rajashekar V,**Sharnappa Joladarashi** and Hemantha Kumar, "Experimental analysis of power regeneration from magnetic damper", In *ICOVP-2017, 13th International Conference on Vibration Problems*, 2017.
19. Srinath, Nitin, Ashwin Kumar, and **Sharnappa Joladarashi**. "Smart Multimode Transmission for Automobiles." In *ASME 2017 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference*, pp. V003T01A023-V003T01A023. American Society of Mechanical Engineers, *IDETC-2017. 6-9 Aug 2017 Cleveland Ohio*.
20. Vinay. M., **Sharnappa Joaladarashi**, "Effect of stress concentration factor on threaded hole under different loading conditions using transfer functions", In *International Conference on Applied science and Engineering Technology (ICASET), MIT Manipal*, 2017
21. Biradar Srikumar, **Sharnappa Joladarashi**, and S. M. Kulkarni. "Analytical and FE analysis of Al 6061 T6 and laminated composite LPG cylinder." *Young* 7850, no. 2770: 1590.
22. P.Naveen Kumar and **Sharnappa Joladarashi**, "Frequency and damping characteristics of cenosphere reinforced particulate composite cantilever beam" *21-22 April. 2017, International Conference on Advances in Mechanical Engineering Sciences*". PES college of Engg. Mandya Karnataka, India.

23. Permi Jagadish, Pravin Malik, Ravikiran Kadoli and **Sharnappa Joladarashi**, "Bending and free vibration studies on layered Al-Al<sub>2</sub>O<sub>3</sub> functionally graded beam prepared using powder metallurgy process" 21-22 April. 2017, *International Conference on Advances in Mechanical Engineering Sciences*". PES college of Engg. Mandya Karnataka, India.
24. Vishwas Mahesh, **Sharnappa Joladarashi** and S M Kulkarni, "Modelling and analysis of material behaviour under normal and oblique low velocity impact" 10-12 March. 2017, *International conference on emerging trends in materials and manufacturing engineering*". NIT-Trichy India.
25. Vishwas Mahesh, **Sharnappa Joladarashi** and S M Kulkarni, "Behavior of natural rubber in comparison with structural steel, aluminum and glass epoxy composite under low velocity impact loading" 23-24 Sept. 2016, *International conference on advanced materials, manufacturing ,management and thermal sciences*". 2016 AMMMT-2016. , SIT Tumkur-572102.India.
26. **Sharnappa**, N. Ganesan and Raju Sethuraman "Vibration damping of composite cylindrical shells with er/mr and viscoelastic core using FEM" *International Conference on Recent Developments in Structural Engineering (RDSE- 2007) Manipal Institute of Technology (MIT), Manipal, India, Aug 30 - Sept 1, 2007.*
27. **Sharnappa**, N. Ganesan and Raju Sethuraman "Free vibration analysis of sandwich hemispherical shells with constrained electro-rheological fluid damping." 14<sup>th</sup> *International Congress on Sound and Vibration (ICSV14) Cairns, Australia, July 9-12, 2007.*
28. **Sharnappa**, N. Ganesan and Raju Sethuraman "Free vibration analysis of truncated sandwich conical shells with constrained electro-rheological fluid damping." 8<sup>th</sup> *International Conference on Vibration Problems (ICOVP07) BESU, Shibpur, India. January 30-February 3, 2007.*
29. **Sharnappa**, N. Ganesan and Raju Sethuraman "Dynamic analysis of orthotropic clamped-free cylindrical shells with constrained electro-rheological fluid damping." 2<sup>nd</sup> *International Congress on Computational Mecchanics and Simulation (ICCMS06),IIT Guwahati 8-10 December 2006.*
30. **Sharnappa**, N. Ganesan and Raju Sethuraman "Modeling of ACLD cantilever composite beam under thermal environment." *International Conference on Computational and Experimental Engineering and Mechanics (ICCES-05), IIT Madras, India, 1-6 December 2005.*
31. **Sharnappa**, N. Ganesan and Raju Sethuraman "Dynamic analysis of coupled piezo-thermo-viscoelastic composite beam with two relaxation times and system response." *International Conference on Computer Aided Engineering (CAE-07), IIT Madras, India, 13-15 December 2007.*
32. **Sharnappa**, N. Ganesan and Raju Sethuraman "Free vibration and thermal buckling of layered cylindrical shell with constrained viscoelastic damping using 3D theory." *International Conference on Computer Aided Engineering (CAE-07), IIT Madras, India, 13-15 December 2007.*
33. **Sharnappa**, N. Ganesan and Raju Sethuraman "Study on damping behavior of ER/MR and composite/viscoelastic sandwich conical shell using semi-analytical method." *International Conference on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM-2007), IIT Kharagpur, India, 27-29 December 2007.*
34. **Sharnappa**, Sandesh S, and S M Kulkarni. "Strength and failure analysis of cenosphere foam cored glass skin sandwiches" 36<sup>th</sup> *International SAMPE technical conference, Nov 15-18, 2004, San Diego, California.*
35. Sandesh S, **Sharnappa** and S M Kulkarni. "Bending strength of cenosphere foam cored jute/glass skin sandwiches" 36<sup>th</sup> *International SAMPE technical conference, Nov 15-18, 2004, San Diego, California.*

### **Ph.D. Dissertation:**

**Title: Buckling and dynamic behavior of sandwich beam and shell structures under thermal and magnetic environments.**

**Description:** Research work deals with the vibration, damping and buckling analysis of sandwich structures (beam and axisymmetric shell) under magnetic and thermal environments using finite element method (FEM). FORTRAN code is developed and is validated with commercial finite element package ANSYS and available literature. The coupled piezo-thermo-elastic problem is solved for beam and axi-symmetric shell structures. The influence of fiber orientation, temperature and magnetic field on variation of frequency and loss factor is analyzed. In addition, the relative influence of a structural damping of composite material, passive damping of viscoelastic material and active damping are analyzed.

### **Research topics:**

- Dynamic behaviour of an Active Constrained Layer Damping (ACLD) composite beam under thermal environment.
- A thermally induced vibration of piezo-thermo-viscoelastic composite beam with relaxation times and system response is obtained.
- Study on dynamic analysis of sandwich structure with viscoelastic core for general shells of revolution under thermal environment.
- Buckling and vibration behavior of sandwich viscoelastic beam and shell under magnetic environment.

### **M. Tech Project:**

**Title: Characterization of cenosphere foam cored sandwich composites for mechanical Properties.**

**Description:** The project involves the preparation of particulate composites using cenosphere fly ash particles as filler in epoxy. The filler particle surface is treated chemically using a Silane-coupling agent to improve the compatibility with the matrix. The compressive properties of these are compared with untreated cenosphere fly ash particles and results are analyzed with scanning electronic microscope (SEM). The primary study involves the preparation of foam cores and testing them for specific strength in compression and bending tests. The secondary study involves the preparation of glass skin sandwiches with cenosphere foam cores and these are tested for specific strength in compression and bending and these properties are compared with cores.

**Address for Communication**

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**Declaration:**

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

**(Sharnappa Joladarashi)**