

## RESUME



**Dr. S. Basavarajappa**

Professor and Chairman  
*DOS in Mechanical Engineering*  
*University BDT College of Engg.*  
*Davangere - 577 004*  
*Karnataka, INDIA*

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basavarajappas@ubdtce.org

### 1. Personal Profile

Name : Dr. S. Basavarajappa  
Father Name : L/O Satyappa  
Date of Birth : 5<sup>th</sup> September 1967  
Languages known : English, Hindi, Kannada, Telegu  
Nationality : Indian  
Permanent Address : #1595/21/22  
` C' Block, Saraswati Nagara  
5<sup>th</sup> main road, 15<sup>th</sup> cross, Vidyanagara  
Davangere, Karnataka-577004, India

## 2. Academic Career

| <b>Degree</b> | <b>Institution/<br/>University</b>                      | <b>Subject</b>                            | <b>Year</b> |
|---------------|---|---|-------------|
| Ph.D.         | PSG College of Technology /Anna University              | Tribology and Machining of Composites     | 2007        |
| M.Tech.       | Univ. BDT College of Engineering/<br>Kuvempu University | Production Engineering systems Technology | 1995        |
| B.E.          | Govt. BDT College of Engineering/ Mysore University     | Mechanical Engineering                    | 1993        |

## 3. Professional Career

| <b>Duration</b>          | <b>Designation</b>  | <b>University/Institute</b>  |
|--------------------------|---------------------|--|
| 11.03.2016 to Till Date  | Registrar           | Indian Institute of Information Technology Dharwad,3rd floor IT Park, opp glass house,Hubli-580029 |
| 27.02.2016 to 10.03.2016 | Deputy Registrar    | Indian Institute of Information Technology Dharwad   |
| 06.01.2013 to 26.02.2016 | Professor           | University BDT College of Engg., Davangere   |
| 06.01.2010 To 05.01.2013 | Associate Professor | University BDT College of Engg., Davangere   |
| 06.01.2007 To 05.01.2010 | Assistant Professor | University BDT College of Engg., Davangere   |
| 06.01.2002 To 05.01.2007 | Senior Lecturer     | University BDT College of Engg., Davangere   |
| 06.01.1997 To 05.01.2002 | Lecturer            | University BDT College of Engg., Davangere   |

## 4. Honours/Awards/Recognition

- 1) Name included in **Marquis WHO IS WHO** year 2007, 2008.
- 2) Name included in **LEADING ENGINEERS of the WORLD** 2007 From International biographical center, Cambridge, England.
- 3) The review article Titled "Turning of particulate Metal Matrix

Composites- Review and Discussion” was used as reference for the subjects viz Composite materials and Machining of Composites for B.E (Composites materials) in **PLYMOUTH University, Plymouth, England.**

- 4) The article Titled “Influence of sliding speed on the Dry sliding wear behaviour and the subsurface deformation on the Hybrid metal matrix composites” was the 17 th **most cited article in 2007 to 2011.**
- 5) The article Titled “Some studies on hard turning of AISI 4340 steel using multilayer coated carbide tool” Measurement, Volume 45, Issue 7, August 2012, Pages 1872–1884 . **(5th most down loaded article, 2012,10th most cited article since 2011)**
- 6) The article Titled “Machinability investigations on hardened AISI 4340 steel using coated carbide insert” International Journal of Refractory Metals and Hard Materials, Volume, July 2012, Pages 75–86.**(Second most down loaded article, 2012)**

## **5. Administrative responsibilities**

- a. Academic Senate member of Visvesvaraya Technological University (may 2013 to may 2016)
- b. Academic Senate member of Ambedkar Institute of Technology -An autonomous institute under VTU Belagavi. (June 2014 to June 2017)
- c. Expert Member for Restructuring committee at National Institute of Technology Surathkal
- d. Worked as Chairmen for Local Inspection Committee for VTU to inspect Engineering Colleges in Karnataka
- e. Worked as Chairmen, Department of Studies in Mechanical Engineering, University BDT College of Engineering, Davangere
- f. Worked as Placement and Training officer
- g. Worked as Proctor, Student Association
- h. Worked as Student welfare officer
- i. Worked as NBA coordinator
- j. Worked as Hostel warden
- k. Organized national conference and many faculty development

programmes.

- l. Member Staff Selection National Institute of Engineering, Mysore, VTU Belagavi, JNTU, Hyderabad.
- m. Valuation Coordinator of Kuvempu and Davangere universities
- n. BOS and BOE member for UG and PG engineering in Kuvempu and Davangere universities
- o. BOE member for UG and PG engineering in Bangalore and Visvesvaraya Technological universities
- p. Secretary **Mechanical Engineer's Form** for 3 years during 2001-2003
- q. **Secretary ISTE** Univ.BDTCE Chapter for one year 2001-2002.
- r. **Secretary** for Teachers association for the year 2007-2008.

## 6. Research interests

- Manufacturing Science(Machining)
- Tribology
- Surface Science and Engineering
- Composite Materials
- Nano composites and Nano Coatings
- Bio-composites

## 7. Research funding

| <b>Research and Development Grants</b> |                                       |               |                        |               |
|--|---------------------------------------|---------------|------------------------|---------------|
| <b>SI No</b>                           | <b>Title of the proposal</b>          | <b>Agency</b> | <b>Amount In lakhs</b> | <b>Status</b> |
| 1                                      | Fire resistance studies on composites | KSCST         | 0.05                   | Completed     |
| 2                                      | Fabrication and testing of Coil       | VGST          | 0.4                    | Completed     |

|   |  |                       |       |         |
|---|--|-----------------------|-------|---------|
|   | spring   |                       |       |         |
| 3 | Development and performance of Green composites from agricultural waste for various applications | UGC,<br>New Delhi     | 8.4   | Ongoing |
| 4 | DST - FIST and VTU   | DST-VTU,<br>New Delhi | 73.00 | Ongoing |
| 5 | Investigations on wear behavior of Hybrid Metal Matrix Composites at Varied Temperatures         | AICTE,<br>New Delhi   | 17.78 | Ongoing |

## 8. Editorial Board / Reviewer

### a. Editorial Board Member

|   |   |
|---|---|
| 1 | Journal of Modern Manufacturing Technology, (Serial Publications, New Delhi),                                       |
| 2 | International Journal of Manufacturing, Materials and Mechanical Engineering (IJMMME), (IGI Global Publishers, USA) |
| 3 | International Journal of Materials Forming and Machining Processes (IJMFMP),(IGI Global Publishers, USA)            |
| 4 | Industrial Tribology  |
| 5 | Guest editor for Materials Science Forum for special issue on "Wear behavior of composite materials"                |

### b. Reviewed research articles

| SI No. | List of Journals  |
|--------|---|
| 1.     | Materials and Design (Elsevier publications)                |
| 2.     | Composite A- Manufacturing (Elsevier publications)          |
| 3.     | J.I Materials Processing Technology (Elsevier publications) |
| 4.     | Journal of Manufacturing (Elsevier publications)            |

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| 5.  | J. Material Science and Technology (Elsevier publications)  |
| 6.  | Tribology International (Elsevier publications)   |
| 7.  | Measurement (Elsevier publications)   |
| 8.  | Wear (Elsevier publications)  |
| 9.  | Precision Engineering (Elsevier publications)   |
| 10. | International journal of Refractory and Hard Materials(Elsevier publications)                       |
| 11. | Machining Science and Technology (Taylor and Francis Publications)                                  |
| 12. | J. Materials and Manuf. Processes (Taylor and Francis Publications)                                 |
| 13. | Int. J. Materials and Product Technology (Inderscience publications)                                |
| 14. | Int. J. Machining and machinability of Materials (Inderscience publications)                        |
| 15. | Int. J. Materials Engineering Innovation (Inderscience publications)                                |
| 16. | Int. J. Surface Science and Engineering (Inderscience publications)                                 |
| 17. | International Journal of Manufacturing, Materials and Mechanical Engineering(IGI Global publishers) |
| 18. | Journal Reinforced plastics and composites (Sage publications)                                      |
| 19. | Journal of Composite Materials (Sage Publications)  |
| 20. | Journal of materials engineering and performance(Springer)  |
| 21. | Journal of Materials Science (Springer)   |
| 22. | Engineering with Computers (Springer)   |
| 23. | Journal of Materials Science (Springer)   |
| 24. | International Journal of Precision Engineering and  |

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|     | Manufacturing(Springer)  |
| 25. | Society for Manufacturing Engineers (SME)                              |
| 26. | Journal of Tribology Research  |
| 27. | Indian Journal Materials science and Engineering (NISCOM, New Delhi)   |
| 28. | National Journal of Technology (PSG College of Technology, Coimbatore) |
| 29. | Journal of Modern Manufacturing Technology, (Serial Publications)      |
| 30. | International Journal of Physical Sciences (IJPS)                      |
| 31. | Journal of Engineering Science and Technology (JESTEC)                 |
| 32. | Journal of Applied Polymer Science                                     |
| 33. | International Journal of Materials Research                            |
| 34. | Journal of Aerospace Science and Technology                            |
| 35. | International J. of Mech. and Materials Engineering                    |
| 36. | Materials Science - Poland   |

## 9. Research Guidance (Ph.D./M.Tech students)

### a. Ph.D students

| Sl. No. | Name            | Discipline  | Status  |
|---------|-----------------|---|---------|
| 1       | Suresh R        | Investigations on machining characteristics of hardened steels                                | Awarded |
| 2       | B. Lata Shankar | Performance Evaluation and optimum scheduling of goods in multi-echelon supply chain networks | Awarded |

|    |                              |   |           |
|----|------------------------------|---|-----------|
| 3  | Manjunatha S S               | Investigations on wear behavior, surface and subsurface alterations on coated materials   | Awarded   |
| 4  | Bharath K N                  | Development and Characterization of coconut leaf shell reinforced Composites  | submitted |
| 5  | Divakar M H                  | Investigations on wear behavior of Hybrid Metal Matrix composites at varied temperature   | ongoing   |
| 6  | Pramod R                     | Study on drilling and delamination of Nano polymer matrix composites  | ongoing   |
| 7  | Ragavendra C R               | Investigations on wear behaviour and some mechanical properties of Nano particle coating on metal substrate                     | ongoing   |
| 8  | Annappa A R                  | Studies on wear behavior of Nano hybrid polymer matrix composites   | ongoing   |
| 9  | Ekanthappa J                 | Investigations on static and dynamic characterization of continuous fibre composites helical spring for automobile application. | ongoing   |
| 10 | T.D.Shashikala<br>(Co-Guide) | Application of digital image processing for surface damage detection of materials   | ongoing   |

**b. M.Tech. students**

| Sl. No. | Name          | Title   | Year | Status    |
|---------|---------------|---|------|-----------|
| 1.      | Ellangovan .S | Investigations on Effect of Filler Materials on Dry Sliding Wear Behavior of Glass-Epoxy Composites | 2008 | completed |



|    |                         |   |      |           |
|----|-------------------------|---|------|-----------|
| 2. | Jayakumar.B.M           | Design and development of relief valve for fighter aircraft fuel system   | 2009 | completed |
| 3. | Chakrasali Chandrakumar | Experimental Investigation of Tribological Behavior of Al Alloy-Al <sub>2</sub> O <sub>3</sub> Particle Metal Matrix Composites | 2009 | completed |
| 4. | Annappa.A.R             | Investigations on Three-Body Abrasive Wear Behaviour of Hardfaced Ferrous Alloys for Agricultural Plough Tools                  | 2010 | completed |
| 5. | Susheel Kumar           | A Study on Preparation and wear behavior of Pulse-electrodeposited Ni-Nano Al <sub>2</sub> O <sub>3</sub> composite coating     | 2010 | completed |
| 6. | Ravikanth .K            | Wear Behaviour of Granet Filled Glass Epoxy Composites  | 2011 | completed |
| 7. | Rohith Kumar H.V.       | Dry Sliding Wear behavior and Mechanical Properties of Functionally Graded glass-epoxy Composite with Graphite Filler           | 2012 | completed |
| 8. | Nagaraj V               | Study of Dry Sliding Wear behavior of Glass-Epoxy Composite filled with Tamarind seed Powder                                    | 2012 | completed |
| 9. | Mohamed Kafeel Delvi    | Studies On Mechanical and Wear Behavior Of Al 7039/MoS <sub>2</sub> Composites  | 2012 | completed |
| 10 | Kiran Kumar Rokhade     | Analysis On Temperature Variation in Dry Sliding Wear for Pin on Disk Configuration   | 2012 | completed |
| 11 | Hanumantharay a         | Study on Three Body Abrasive Wear Behaviour of Graphite Filled Functionally Graded Materials                                    | 2013 | completed |
| 12 | Harish N                | Investigations into Al-   | 2013 | completed |

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|----|---------------------------|--|------|-----------|
|    |                           | 17wt.%Si alloy produced by centrifugal casting   |      |           |
| 13 | Narendra Kumar S C        | A Study on Strength of Bolted Joints on Natural Fiber Reinforced Polymer Composite                   | 2013 | completed |
| 14 | Santosh Kumar B Y         | Study on Effect of Alumina Nano Particles on Wear Behaviour of FRP Nano Composites                   | 2014 | completed |
| 15 | Sharath H                 | Wear Behavior of Coated Steels   | 2014 | completed |
| 16 | Rudresh H S               | Study on Wear Behavior of Electro Deposited Ni-Nano Al <sub>2</sub> O <sub>3</sub> Composite Coating | 2014 | completed |
| 17 | MALI SACHIN CHANDRAM      | Analysis on Temperature Variation in Dry Sliding Wear  | 2014 | completed |
| 18 | Laxminarayan Pai          | Design and Analysis of Operator Work-Station with Footrest   | 2015 | completed |
| 19 | Laxmi                     | Linear Static & Shear Buckling Analysis of Spar Panels   | 2015 | completed |
| 20 | Chandrashekar Mulimani    | High Temperature Wear Behaviour of Al-B <sub>4</sub> C Metal Matrix Composite                        | 2015 | completed |
| 21 | Ajith K                   | Distortion Analysis of Rear Axle Shaft After Heat Treatment  | 2015 | completed |
| 22 | Muchandi ramesh paragonda | Study on scratch resistance of electro deposited aluminium substrate                                 | 2015 | completed |
| 23 | Preetham b m              | Study on tensile strength of coating on aluminum plate substrate by electrodeposition process        | 2015 | completed |
| 24 | Deenashree k n            | Optimisation of process parameters on material removal rate and surface roughness in wire-edm of     | 2015 | completed |

|    |                          |   |      |           |
|----|--------------------------|---|------|-----------|
|    |                          | titanium (grade-5) alloy  |      |           |
| 25 | Ashwini seelavantha matt | Study on wear behavior of organomodified nanoclay filled nanocomposite                | 2015 | completed |
| 26 | Roopa NAIK               | Some studies on drilling of natural fiber reinforced polymer matrix hybrid composites | 2015 | Completed |

### 10.Ph.D. Examiner for other Universities

- a. Anna university, Chennai
- b. Bharathiyar university, Coimbatore
- c. JNTU Anantapur
- d. SCSVMV University
- e. Bangalore university
- f. SRM University
- g. Tumkur university
- h. Mangalore university

### 11.Summary of publications/citations

| Title                     | Numbers |
|---------------------------|---------|
| Books                     | 01      |
| Chapters in Edited Books  | 05      |
| Review Articles           | 05      |
| International Journals    |         |
| National Journals         |         |
| International Conferences |         |
| National Conferences      |         |

| Google Scholar Citation Index |      |            |
|-------------------------------|------|------------|
| Citation indices              | All  | Since 2010 |
| Citations                     | 1140 | 1037       |
| h-index                       | 19   | 19         |
| i10-index                     | 24   | 24         |

\* Source - Google scholar citation

## 12.Details of publications/books/edited books

| No.s                   | Invited Chapters in Edited BOOKS (International)  |
|------------------------|---|
| 1.                     | R. Pramod, S. Basavarajappa and J. Paulo Davim "A review on investigations in drilling of fiber reinforced plastics", Chapter 7, (179-194) in Davim J.P. (Ed.), <i>Machinability of fibre-reinforced plastics, DE Gruyter, Berlin, 2015, ISBN: 978 3 11 029222 0</i>  |
| 2.                     | S. Basavarajappa, M. PrasannaKumar and J. Paulo Davim, "Drilling of metal matrix composites; a brief overview", Chapter 7 (157-167), in Davim, J.P (Ed.), <i>Metal Matrix Composites, NOVA Publishers, New York, 2012, ISBN: 978-1-61209-771-8</i>  |
| 3.                     | S.Ellangovan, S.Basavarajappa, J.Paulo Davim. Effect of Filler Material on Dry Sliding Wear Behavior of Glass-Epoxy Composites. Invited Chapter in "Tribology- Research Advances", <i>Nova publishers USA, 2008.</i>  |
| 4.                     | S.Basavarajappa, J.Paulo Davim. Effect of applied load on Dry sliding wear behaviour and subsurface studies on hybrid metal matrix Composites. Invited Chapter in "Tribology- Research Advances", <i>Nova publishers, USA, 2008.</i>  |
| 5.                     | M.Prabhu, S.Basavarajappa. Studies on Dry Sliding wear Behaviour of Al/SiCp-Graphite Composites for Automobile applications, <i>Advanced materials, Design and Development, Elsevier Publications, U.K. 2006.</i>   |
| <b>Review Articles</b> |   |
| 6.                     | S.Basavarajappa, G.Chandramohan, K.V.Narasimha Rao and R.Radhakrishan "Turning of particulate Metal Matrix Composites- Review and Discussion", <i>J.Manufacturing Engineering Part-B, IMechE, Vol. 246, 2006, pp1189-1204. (Impact factor 2006-0,386)</i> (was used as reference for the subjects viz Composite materials and Machining of Composites for B.E (Composites materials) in <b>PLYMOUTH University, Plymouth, England</b> ) |
| 7.                     | Suresh R, S.Basavarajappa, V.N.Goitonde G.L.Samuel, J.P.Davim (2013)"State of the art in machining of hardened  |

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|                          | steels" J.Manufacturing Engineering Part-B, IMechE, <i>February 2013; vol. 227, 2: pp. 191-209. (Impact factor 2012-0,770)</i>  |
| 8.                       | S Narendranath, M Manjaiah, S Basavarajappa and VN Gaitonde "State of art review in WEDM of Shape memory alloys" <i>Reviews on Advanced Materials Science, 36, 89-111. Impact factor 2012-1,077)</i>  |
| 9.                       | M Manjaiah, S Narendranath, S Basavarajappa and VN Gaitonde "Non-conventional Machining of Shape memory alloys- A Review and Discussion" <i>Journal of Nonferrous society of China, 24 (1), 12-21. (Impact factor 2013-0.92)</i>  |
| 10.                      | Bharath K N, Basavarajappa S, "Applications of Bio-Composite Materials based on Natural fibers from Renewable Resources – A Review" <i>Science and Engineering of Composite Materials – Article in Press (Impact Factor: 0.579)</i>   |
|                          |   |
| <b>Original Articles</b> |   |
| <b>Year 2016</b>         |   |
| 11.                      | BM Viswanatha, M Prasanna Kumar, S Basavarajappa, TS Kiran (2016) Study of the microstructure, hardness and tribological behavior of hypoeutectic Al-7Si hybrid composites, <i>Industrial Lubrication and Tribology 68 (2)</i>  |
| 12.                      |   |
| <b>Year 2015</b>         |   |
| 13.                      | Manjaiah, M., Narendranath, S., Basavarajappa, S., & Gaitonde, V. N. (2015). Investigation on material removal rate, surface and subsurface characteristics in wire electro discharge machining of Ti50Ni50-xCux shape memory alloy. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials Design and Applications, 1464420715619949. (Impact factor 2014-)</i> |
| 14.                      | Suresh, R., Basavarajappa, S., & Gaitonde, V. N. (2015). Experimental studies on the performance of multilayer coated carbide tool in hard turning of high strength low alloy steel. <i>Journal of Materials Research, 30(20), 3056-3064. (Impact factor 2014-)</i>   |
| 15.                      | A R, Annappa & Basavarajappa, S. (2015). Studies on wear resistance of organic tamarind kernel powder filled glass-epoxy  |

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|     | composites based on Taguchi technique. <i>Industrial Lubrication and Tribology</i> , 67(5), 407-417.  |
| 16. | Manjaiah, M., Narendranath, S., Basavarajappa, S., & Gaitonde, V. N. (2015). Effect of electrode material in wire electro discharge machining characteristics of Ti 50 Ni 50– x Cu x shape memory alloy. <i>Precision Engineering</i> , 41, 68-77.                            |
| 17. | Siddesh Kumar, N. G., Shiva Shankar, G. S., & Basavarajappa, S. (2015, July). A Study on Dry Sliding Wear Behaviour of Hybrid Metal Matrix Composites at Room Temperature. In <i>Applied Mechanics and Materials</i> (Vol. 766, pp. 219-228).                                 |
| 18. | Shankar, G. S., & Basavarajappa, S. (2015). Synthesis of Metal Matrix Hybrid Composites and Evaluation of Mechanical and Tribological properties. <i>Applied Mechanics &amp; Materials</i> .  |
| 19. | S. Basavarajappa and Ajith G. Joshi(2015) surface roughness on drilling of glass/epoxy composites with sic/gr fillers, <i>Journal of Machining and Forming Technologies</i> , Volume 6, Number 1-2  |
| 20. | Kiran, T. S., Prasannakumar, M., Basavarajappa, S., & Viswanatha, B. M. (2015). Effect of heat treatment on tribological behavior of zinc aluminum alloy reinforced with graphite and SIC particles for journal bearing. <i>Industrial Lubrication and Tribology</i> , 67(4). |
| 21. | Shiva Shankar, G. S., & Basavarajappa, S. (2015, May). Synthesis and Characterization of Aluminium 2219 Reinforced with Boron Carbide and Molybdenum Disulfide Metal Matrix Hybrid Composites. In <i>Advanced Materials Research</i> (Vol. 1101, pp. 28-31).                  |
| 22. | Bharath, K. N., & Basavarajappa, S. (2015). Fourier Transform Infra-Red Spectroscopy and Chemical Resistance of Untreated and Alkali Treated Coconut Leaf Sheath Fiber Reinforced Polymer Composites. <i>Applied Mechanics &amp; Materials</i> .                              |
| 23. | Manjunatha, S. S., & Basavarajappa, S. (2015). The effect of sealing on the wear behaviour of plasma sprayed Mo coating. <i>International Journal of Surface Science and Engineering</i> , 9(4), 314-327.   |
| 24. | Manjaiah, M., Narendranath, S., & Basavarajappa, S. (2015). Wire Electro Discharge Machining Performance of TiNiCu Shape Memory Alloy. <i>Silicon</i> , 1-9.  |
| 25. | SS Manjunatha, S Basavarajappa (2015)Effect of coating thickness on properties of Mo coatings deposited by plasma   |

|                  |  |
|------------------|--|
|                  | spraying, Tribology 9 (1), 41-45   |
| 26.              | A.R.Annappa, S. Basavarajappa, Nagaraj, Effect of tamrind power on dry sliding wear behavior of polymer matrix composites. Tribology and Lubrication (Article in press) (Impact factor 2012-0.4)   |
| 27.              | Kiran T.S, M.PrasannaKumar, S.Basavarajappa, Vishvanath B.M. (2013) "Wear behavior of ZA27/SiCp-Gr Composites" Tribology and Lubrication (Article in press) (Impact factor 2012-0.4)   |
| <b>Year 2014</b> |  |
| 28.              | A Pai, I Sogalad, SK Albert, P Kumar, TK Mitra, S Basavarajappa (2014)Comparison of Microstructure and Properties of Modified 9Cr-1Mo Welds Produced by Narrow Gap Hot Wire and Cold Wire Gas Tungsten Arc Welding Processes Procedia Materials Science 5, 1482-1491 |
| 29.              | M Manjaiah, S Narendranath, S Basavarajappa, VN Gaitonde (2014) Wire electric discharge machining characteristics of titanium nickel shape memory alloy,Transactions of Nonferrous Metals Society of China 24 (10), 3201-3209  |
| 30.              | R Suresh, S Basavarajappa(2014)Effect of Process Parameters on Tool Wear and Surface Roughness during Turning of Hardened Steel with Coated Ceramic Tool,Procedia Materials Science 5, 1450-1459   |
| 31.              | AG Joshi, MP Kumar, S Basavarajappa (2014)Influence of Al <sub>2</sub> O <sub>3</sub> Filler on Slurry Erosion Behavior of Glass/Epoxy Composites Procedia Materials Science 5, 863-872  |
| 32.              | SS Manjunath, S Basavarajappa (2014)Dry Sliding Wear Behaviour of Plasma SprayedAl <sub>2</sub> O <sub>3</sub> -30% Mo and Mo Coating Procedia Materials Science 5, 248-255.   |
| 33.              | Basavarajappa S and Ajith G. Joshi, "Surface Roughness in Drilling of Glass/Epoxy Composites with SiC/Gr Fillers", Journal of Machining and Forming Technologies, Volume 6 Issue 1-2.  |
| 34.              | Manjunath S S, S.Basavarajappa, "The Effect of Sealing on the Wear Behaviour of Plasma Sprayed Mo Coating" International Journal of Surface Science and Engineering.   |
| 35.              | Bharath K N, Basavarajappa S, "Flammability Characteristics of Chemical Treated Woven Natural Fabric Reinforced Phenol Formaldehyde Composites", Procedia Materials Science  |

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|     | (Elsevier) 5, 1880-1886.  |
| 36. | Manjunath S S, S.Basavarajappa, "Effect of coating thickness on wear resistance of plasma sprayed mo coating" Tribology - Materials, Surfaces & Interfaces (Article in press)   |
| 37. | Vishvanath B.M. M.Prasannakumar, S.Basavarajappa, Kiran T.S, Dry sliding wear behavior of heat treated metal matrix composites. Material Science (Article in Press)   |
| 38. | A.R.Annappa, S. Basavarajappa, H. N. Ashoka, Effect of soapstone filler on dry sliding wear behaviour of fiber reinforced polymeric composite, International Journal of Plastics Technology, 1-11.  |
| 39. | Suresh R, S.Basavarajappa, V.N.Goitonde G.L.Samuel, Analysis of cutting forces and surface roughness in Hard Turning of AISI 4340 Using Multilayer Coated Carbide Tool, International Journal of Machining and Machinability of Materials (Article in press)    |
| 40. | S Narendranath, M Manjaiah, S Basavarajappa, "A review on machining of titanium based alloys using EDM and WEDM", Rev. Adv. Mater. Sci, 36, 89-111.   |
| 41. | Manjunath S S, S.Basavarajappa, Effect of powder particle size on wear resistance of plasma sprayed mo coating. Journal of Tribology, IMechE, vol. 228, no. 7, 789-796.   |
| 42. | Kiran. T.S, Prasanna Kumar. M, Basavarajappa. S and Viswanatha.B.M "Dry sliding wear behavior of heat treated hybrid metal matrix composite using Taguchi techniques", Materials and Design, Volume 63, November 2014, Pages 294-304. (Impact factor 2012- 2.9) |
| 43. | Vishvanath B.M. M.Prasannakumar, S.Basavarajappa, Kiran T.S, (2014)"Effect of Ageing on Dry sliding wear behavior Al-MMC for break Disk. Tribology in Industry, Vol 36 .No.1 40-48.   |
| 44. | S Narendranath, M Manjaiah, S Basavarajappa, and VN Gaitonde "Some Investigations on Wire Electric Discharge Machining Characteristics of Titanium Nickel Shape memory Alloy" Journal of Nonferrous society of China, 24 (1) 12-21 (Impact factor 2013-0.92)    |
| 45. | A.R.Annappa, S. Basavarajappa, "Studies on dry sliding wear behaviour of functionally graded graphite particle filled glass-epoxy composites" Composite Interfaces 1-21 (Impact factor  |



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|                  | 2012-0.5)   |
| <b>Year 2013</b> |   |
| 46.              | S Narendranath, M Manjaiah, S Basavarajappa, and VN Gaitonde "Experimental investigations on performance characteristics in wire electro discharge machining of Ti50Ni42.4Cu7.6 shape memory alloy" J.Manufacturing Engineering Part-B, IMechE August 2013; vol. 227, 8: pp. 1180-1187 ( <i>Impact factor 2012-0,770</i> )                        |
| 47.              | K Ravikanth, S Basavarajappa, KV Arun(2013) "Influence of service temperature and secondary fillers on the impact toughness of glass-epoxy composites" International Journal of Plastics Technology, 1-11   |
| 48.              | S. Basavarajappa, J. Paulo Davim, "Influence of graphite particles on surface roughness and chip formations studies in turning metal matrix composites", (2013) Materials Research, 16 (5), 990-996 ( <i>Impact factor 2012-0,516</i> )   |
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| 142. | M.Prasannakumar, B.T.Achyutha, Basavarajappa S "Studies on wear resistance of ZA-27/Garnet METAL Matrix Composites based on Taguchi Technique" National Conference on Development of Advanced composite components in Aerospace and automobile applications, Bapuji Institute of Engineering and Technology, Davanagere, 9-10 Feb 2007. |
| 143. | Narendranath S, Vijay Desai and Basavarajappa S "Hot Rolling and Ageing Effect on the Pseudoelasticity Behaviour Of Ti-Rich TiNi Shape Memory Alloy" National Conference on Advances in Materials and Manufacturing Processes, University BDT College of Engineering, OCT 5-6,2007.   |
| 144. | Narendranath S, Vijay Desai and Basavarajappa S "Effect of Load on Dry Sliding Wear Property of Aged TiNiCu Alloy " National Conference on Advances in Materials and Manufacturing Processes, University BDT College of Engineering, OCT 5-6,2007.  |
| 145. | R.Suresh and S.Basavarajappa "Machining of Hardened Alloy Steel- Review and Discussion" National Conference on Advances in Materials and Manufacturing Processes, University BDT College of Engineering, OCT 5-6,2007.  |
| 146. | Ashok H.N, S.Basavarajappa and A.V Malini "Composite Dielectric/Insulating Materials In Electrical Power Engineering: A Review" National Conference on Advances in Materials and Manufacturing Processes. University BDT College of Engineering, OCT 5-6, 2007.   |
| 147. | Charkrasali Chandrakumar, S.Basavarajappa, K.V. Arun, Manjunath yadav S "Critical stress intensity factor in glass-Epoxy composites with secondary fillers". National conference on "New Advances in thermal, design, Materials and Manufacturing Engineering, Malnad college of Engineering, Hassan, March 05-09, 2009.                |
| 148. | Manjunath yadav S, K.V. Arun, Sham Aan M.P, S.Basavarajappa, M.Krishna, "Effect of Co-axial and Transaxial compressive load on rigid puf sandwich structures". National conference on "New Advances in thermal, design, Materials and Manufacturing Engineering, Malnad college of Engineering,   |

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|      | Hassan, March 05-09, 2009.   |
| 149. | S.Basavarajappa, "Surface alterations in turning of Hybrid metal matrix composites" National conference on "New Advances in thermal, design, Materials and Manufacturing Engineering, Malnad college of Engineering, Hassan, March 05-09, 2009.  |
| 150. | R. Suresh, S. Basavarajappa, G.L. Samuel, 'Predictive modeling of cutting forces and tool wear in hard turning using response surface methodology', Int. Conf. on Modeling Optimization and Computing, (ICMOC-2012), 10 <sup>th</sup> & 11 <sup>th</sup> April 2012, Noolrul Islam University, Kumarcoil, Kanyakumari (D), T.N.                |
| 151. | R. Suresh, S. Basavarajappa, G.L. Samuel 'Force Prediction Model of Multilayer Coated Carbide Tool in Hard Turning of AISI 4340 Steel Using Response Surface Methodology', Int. Conf. on Materials Processing and Characterization, (ICMPC-2012), 8 <sup>th</sup> to 10 <sup>th</sup> March 2012, GRIET, Hyderabad,                            |
| 152. | R. Suresh, S. Basavarajappa, G.L. Samuel, 'Tool life, wear behavior and surface roughness in turning of hardened AISI4340 steel with ceramics and coated carbide cutting tools', Int. Conf. on Recent Trends in Advanced materials, (ICRAM-2012), VIT University, Vellore, 20-22 <sup>nd</sup> Feb.2012.                                       |
| 153. | R. Suresh, S. Basavarajappa, G.L. Samuel, 'Influence of process parameters on surface, subsurface deformation and through thickness residual stress distribution in hard turning of AISI 4340 steel', Int. Conf. on Operational Excellence for Global Competitiveness, (ICOEGC-2011), 3-5 <sup>th</sup> Feb. 2011, RVCE, Bangalore, Karnataka. |
| 154. | R. Suresh, S. Basavarajappa, G.L. Samuel, 'Effect of machining parameters on surface integrity in hard machining and its impact on functional performance', Int. Conf. on Frontiers in mechanical Engineering, (FIME-2010), 22 <sup>nd</sup> May 2010, NITK, Suratkal, Karnataka   |
| 155. | R. Suresh, S. Basavarajappa, G.L. Samuel, 'Design optimization of process parameters for turning of hardened AISI 4340 alloy steel based on Taguchi method', Int. Conf. on Advanced materials, Manufacturing, management and Thermal Sciences, (AMMMT-2010), 18-19 <sup>th</sup> Nov. 2010, SIT, Tumkur, Karnataka                             |
| 156. | R. Suresh, S. Basavarajappa, G.L. Samuel, 'Tool wear and surface integrity in turning of hardened AISI4340 steel with coated carbide tool', National Conference on Advances in Mechanical Engineering, (NAME-2010), 24-25 <sup>th</sup> Sept. 2010,  |

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|      | JNNCE, Shivamoga, Karnataka  |
| 157. | R. Suresh, S. Basavarajappa, G.L. Samuel, 'Measurement of cutting Temperature while Machining-review', National Conference on Mechanical Engineering Trends, (NCMET-2010), 19th Feb.2010, BITM, Bellary-583104,  |
| 158. | R. Suresh, S. Basavarajappa, G.L. Samuel, 'Surface Integrity in hard machining and impact on functional performance and life of machined products', National conference on recent trend in advanced material, (RTAM- 2009), Dec. 18 <sup>th</sup> 2009, KVGCE Sullia-574327, Karnataka   |
| 159. | R. Suresh, S. Basavarajappa, G.L. Samuel, Machining of Hardened Steels Review and discussion, National Conference on Advances In Materials and Manufacturing Process, (AMMP-2007), 5-6 <sup>th</sup> Oct. 2007, UBDT College Of Engineering, Davangere-02, Karnataka   |
| 160. | Ajith G. Joshi, S Basavarajappa, Anith .S.Kumar, Navin Kumar P.N., Shashi Kumar .G.M., Sharanabasavaraj, "Investigation on the effect of filler materials on fire resistance behaviour of glass/vinylester composites", <i>International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences, Nov. 18<sup>th</sup> - 19<sup>th</sup>, 2010, Siddaganga Institute of Technology, Tumkur, Karnataka</i> |
| 161. | M. N. Channapagoudra, Ajith G Joshi, S. Basavarajappa, M. Prasanna Kumar, P.M. Hosmatha "Studies on mechanical behavior of glass/epoxy composites with different fillers", <i>International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences, Nov. 18<sup>th</sup> - 19<sup>th</sup>, 2010, Siddaganga Institute of Technology, Tumkur, Karnataka</i>  |
| 162. | Ajith G Joshi, Manjunath .N, S Basavarjappa, Abhay Venkatesh, "Effect of graphite filler on three body abrasive behaviour of glass/epoxy composites", <i>International Conference on Advance in Mechanical Engineering and Building Science, Dec 14<sup>th</sup> - 16<sup>th</sup>, 2009, Vellore Institute of Technology, Vellore, Tamilnadu.</i>   |

### 13.Conferences organized

- a. TEQIP Sponsored National conference on Recent "**Advances on materials and Manufacturing process**" conducted on 5<sup>th</sup> and 6<sup>th</sup>

Oct, 2007 at university BDT college of Engineering, Davangere.

#### **14. Session chaired**

1. **Chairperson** for one session at International conference on Advances in Manufacturing and Material Engineering on 27th – 29st March, 2014 which was conducted by National Institute of Technology (NIT-K), at Surathkal, Karnataka.
2. **Chairperson** for one session at International conference on “Advanced Materials, Manufacturing, Management and Thermal Sciences” at Siddaganga Institute of Technology, Tumkur, Karnataka, during 18<sup>th</sup> -19<sup>th</sup> Nov 2010.
3. **Chairperson** for one session at National conference on “Development of Advanced composite components in Aerospace and Automotive applications” at BIET Davangere, during 9<sup>th</sup> -10<sup>th</sup> Feb 2007.
4. **Chairperson** for one session at National conference on “Advances in Materials and Manufacturing processes” at University BDT College of Engineering Davangere, during 5<sup>th</sup> -6<sup>th</sup> Oct 2007.
5. **Judge** for state level paper presentation competition for mechanical and Industrial engineering students at Bapuji Institute of Engineering and Technology, Davangere, 31<sup>st</sup> March 2009.
6. **Judge** for state level paper presentation completion for mechanical engineering students at G.M. Institute of Technology Davangere, during 9<sup>th</sup> -10<sup>th</sup> Feb 2008.
7. **Judge** for state level paper presentation completion for mechanical engineering students at Siddaganga Institute of Engineering and Technology TUMKUR, during 4<sup>th</sup> -15<sup>th</sup> March 2008.

#### **15. Courses organized and attended**

##### **a. Organized**

1. Co-ordinator for VTU-VGST sponsored “Quantitative Research Technique” faculty development programme, March 26-30 2012.
2. Co-ordinator for TEQIP sponsored “Advanced Topics in Mechanical Engineering” a faculty development programme, March 26-30 2007.
3. Co-ordinator for TEQIP Sponsored “Drafting using AutoCAD” under



service to Community and Economy, March 5-9, 2007.

4. Chief Co-ordinator for TEQIP Sponsored "Awareness on Microsoft office Tools and Internet" under service to community and Economy, Feb 19-23, 2007.
5. Co-ordinator for TEQIP Sponsored "Awareness about Measurement Technique" under service to community and Economy, Feb 19-23, 2007.
5. Co-ordinator for TEQIP Sponsored "Trainers Training Programme" a faculty development programme, Oct. 9<sup>th</sup> -10<sup>th</sup> 2006.
6. Chief Co-ordinator for ISTE sponsored State level Quiz competition for Mechanical Sciences students at Degree level, on March 24, 2002.
7. Organizing committee member for State level ISTE convention on 12<sup>th</sup> and 13<sup>th</sup> Nov 2002.
8. Organizing committee member for L.S.Chandrakanth Memorial Lecture on 12<sup>th</sup> and 13<sup>th</sup> Nov 2002.

**b. Attended**

1. Induction Training Programme, Kuvempu University, PG Centre, Davangere, 4 Days, Sept 12-15, 1997.
2. Computer aided design and drafting, Bapuji Institute of Engg and Technology, 1 week(22-17, Sept 1997)
3. CAD/CAM/Rapid prototyping for Near Net Shape Manufacturing, Indian Institute of Science, Bangalore, 1 Week (3-7 1998)
4. Non-Conventional Energy Sources, BIET, Davangere, 2 Days(31<sup>ST</sup> July 1<sup>st</sup> Aug 1999)
5. Caps Mill software for CNC Machines, CADEM/UBDTCE, Davangere, 2 Days (29<sup>th</sup>-21<sup>st</sup> Dec 1999)
6. Tool Engineering and Design, Malnad college of Engineering Hassan(13-26 March 2000)
7. 1<sup>ST</sup> SERC school on Precision Engineering, PSG College of Technology 2 Weeks (14<sup>th</sup> may 23<sup>rd</sup> may 2001)
8. Concept and practice of Computer aided design and Manufacture,

- Bapuji Institute of Engg and technology, 2 weeks (20<sup>th</sup> -31<sup>th</sup> Nov 2002)
9. Role of Technical Education in meeting of the challenges of Globalization, UBDTCE, Davangere, ISTE State Level Convention and AICTE (12<sup>th</sup> &13<sup>th</sup> Nov 2002)
  10. 58<sup>th</sup> Annual Technical Meet NMD ATM 2005, Indian Institute of Metals, IIT Madras Nov 17-19.2005.
  11. 59<sup>th</sup> Annual Technical Meet NMD ATM 2005, Indian Institute of Metals, ISRO Trivandrum Nov. 17-19.2005.
  12. Two day seminar on Industry Academia meet, NIE Mysore & CII at Infosys, Mysore, 2 Days, (June 2006)
  13. FEM &Its Application to Nonlinear Problem, PES College of Engineering Mandya, 2Week (July 11 to 22. 2005)
  14. Smart Actuators, B.L.D.E.A.'S Vachana pitamaha Dr.P.G.Halakatti College of Engineering and Technology, (March 27-31,2006)
  15. Basics of CAD/CAM/CAE Tools, Malnad College Engineering, Hassan,1Week (Aug 14-19,2006)
  16. Advanced CAD/CAM Tools in design and Manufacturing 1Week (Sept25-29, 2006).
  17. Recent trends in Production Engineering and Management 2 Days ;( 15th to 17<sup>th</sup> June 2006).
  18. 2 Day State Level Workshop on "Autonomy, Networking of institution and services to community" Chikamagalur (22<sup>nd</sup>-23<sup>rd</sup> Aug 2006)
  19. Trainers Training Program Conducted Talent Tree 2 days ( 9<sup>th</sup> and 10<sup>th</sup> Oct.2006)
  20. One week a faculty development programme on TEQIP sponsored "Advanced Topics in Mechanical Engineering" University BDT College of Engineering, Davangere. March 26-30 2007
  21. SERC School on "Micro Machining and Micro Fabrication" Central Manufacturing Technology Institute, Bangalore (24<sup>th</sup> to 28<sup>th</sup> Nov.2008)
  22. Three day work shop on "Intellectual property rights" at University BDT College of Engineering, Davangere from 5<sup>th</sup> to 7<sup>th</sup> March 2009.

23. Three day work shop on "Engineering Education: Past, Present & Future" at University BDT College of Engineering, Davangere from 16<sup>th</sup> to 18<sup>th</sup> March 2009.
24. One week Faculty Development Programme on "Quantitative research Techniques" at University BDT College of Engineering, Davangere, from 26<sup>th</sup> -30<sup>th</sup> march 2012.
25. Ten Days Faculty Development Programme on "Introduction to research Methodologies" at University BDT College of Engineering, Davangere, from 25<sup>th</sup> -June to 4<sup>th</sup> July 2012.

### **16. Invited talks/keynote address**

1. Some studies on three body abrasive wear behaviour of hardfaced and normal plough tool material using Taguchi method or one session at International conference on "Advanced Materials, Manufacturing, Management and Thermal Sciences" at Siddaganga Institute of Technology, Tumkur, Karnataka, during 18<sup>th</sup> -19<sup>th</sup> Nov 2010. How to write Research Articles, A faculty development programme at Canara College of Engineering, Mangalore, March 2013.
2. Mathematical Modeling of Wear behaviour of Metal Matrix composites, Recent trends in Production Engineering and Management, University BDT College of Engineering, Davanagere-577 004. 15<sup>th</sup> to 17<sup>th</sup> June 2006.
3. Drilling of Hybrid Metal Matrix Composites, "Advanced Topics in Mechanical Engineering" A faculty development programme, University BDT College of Engineering, Davanagere-577 004. March 26-30, 2007.
3. Recent advances on machining and machinability of materials. ISTE Sponsored Guest lecture on 27<sup>th</sup> October 2007 at SJM Institute of Technology, Chitradurga.
4. Some studies on machining of Metal Matrix Composites. "Advances in Nano Materials" A faculty Development programme, at Park Engineering College, Coimbatore, March 29, 2008.
5. Machining of Metal matrix composites- Recent Advances "New Advances in thermal, design, Materials and Manufacturing Engineering, Malnad college of Engineering, Hassan, March 06, 2009.

6. Effective writing of Research article "Quantitative Research Technique" faculty development programme, March 26-30 2012.
7. Taguchi Design of Experiments "Quantitative Research Technique" faculty development programme, March 26-30 2012.