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## FACULTY PROFILE

**Name** : **Dr. D. G. MALLAPUR**



**Designation** : **Associate Professor**

**Department** : **Industrial and Production Engineering**

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**Scopus ID** : **36601240500**

**Vidwan Id** : **142345**

**Researcher ID (Web of Science)** : **AAR-9823-2020**

**Google Scholar ID** : **Yh-rNV8AAAAJ&hl=en**

**Qualification** : **Ph.D. (Metallurgical and Materials Engineering)**

### **Professional Experience**

Teaching experience : **30 years**

Industry experience : **Nil**

## **Administrative Responsibilities**

- :
1. Union Public Service Commission, New Delhi - Syllabus and Question paper setter
  2. Screening committee member for selection of faculty in Mechanical Engineering, Visvesvaraya Technological University, Belagavi
  3. Coordinator National Board of Accreditation, Department of Industrial and Production Engineering
  4. Chairman/Squad member/Deputy Chief Supt. (External) Visvesvaraya Technological University Exams, Belagavi
  5. BOE Chairman, Paper setter and Moderator for the Department of Industrial and Production Engineering
  6. Coordinator and Student Advisor for Production and Industrial Students Association (PIESA)
  7. Chairman, Anti Ragging Committee, Department of Industrial and Production Engineering
  8. Had a scientific visit under Government of India, Ministry of Science and Technology, Department of Science and Technology to Department of Materials Science and Engineering, Budapest University of Technology and Economics, Budapest, Hungary under Indo-Hungarian Educational Exchange Programme
  9. Editorial Board member/Reviewer for International journals like - American Journal of Engineering, Technology and Society (Open Science Publishers); Journal of Metallurgical Engineering; Journal of Materials Science Research; Journal of Engineering and Technology Research; Acta Metallurgical Sinica (English Letters); American Journal of Science, Journal of Fullerenes, Nanotubes and Carbon Nanostructures (Taylor and Francis) and American Journal of Materials Science and Application and
  10. Session chair/Resource personal in Workshops/Seminars/International conferences organized by professional agencies in India and Abroad

## **Teaching No. of Projects Guided**

**UG : 25**

**PG : 05**

## **Research**

### **Interest Area :**

1. Material Science
2. Metallurgical and Materials Engineering
3. Metal Cutting
4. Metal Forming and
5. Nano Technology.

**No. of Research Scholars Pursuing** : **02**  
**Awarded** : **02**  
**Patents** : -----  
**Research Grants** : -----  
**Publications** : -----  
**Books/Chapters** : -----

- Journals (with citations)** :
1. **D. G. Mallapur**, K. Rajendra Udupa and S. A. Kori, "Influence of grain refiner and modifier on the microstructure and mechanical properties of A356 alloy", *International Journal of Engineering Science and Technology*, Vol. 2(9), 2010, pp. 4487-4493, ISSN: 0975-5462, **Citations - 19**
  2. **D. G. Mallapur**, K. Rajendra Udupa and S. A. Kori, "Influence of Ti, B and Sr on the microstructure and mechanical properties of A356 alloy", *Journal of Materials Science (Springer)*, 46(6), 2011, pp. 1622-1627, ISSN: 0022-2461, **Citations - 38**
  3. **D. G. Mallapur**, K. Rajendra Udupa and S. A. Kori, "Influence of Ti, B and Sr on the tribological properties of A356 alloy", *Tribology - Materials, Surfaces and Interfaces (Francis and Taylor)*, Vol. 5(1), 2011, pp. 34-42, ISSN: 1751-5831
  4. **D. G. Mallapur**, K. Rajendra Udupa and S. A. Kori, "Studies on the influence of grain refining and modification on microstructure and mechanical properties of forged A356 alloy", *Material Science and Engineering A (Elsevier)*, 528, (13-14), 2011, pp. 4747-4752, ISSN: 0921-5093, **Citations - 48**
  5. **D. G. Mallapur**, R. V. Kurahatti, S. A. Kori, A. O. Surendranathan, A. V. Ramesh Kumar and Bablu Mordina, "Friction and dry sliding wear behaviour of nickel filled epoxy nanocomposites", *Tribology - Materials, Surfaces and Interfaces (Francis and Taylor)*, Vol. 5(2), 2011, pp. 49-52, ISSN: 1751-5831, **Citations - 9**
  6. **D. G. Mallapur**, K. Rajendra Udupa, S. A. Kori and Rajeshwar S. Kadadevarmath, "Influence of grain refining and modification on microstructure and mechanical properties of cast and forged A356 alloy - A comparative study", *Journal of Manufacturing and Industrial Engineering*, Vol. 10(4), 2011, pp. 21-25, ISSN: 1335-7972
  7. **D. G. Mallapur**, R. V. Kurahatti and K. Rajendra Udupa, "Influence of Ti, B and Sr on microstructure, mechanical and tribological properties of as cast, cast aged and forge aged A356 alloy", *International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering*, Vol. 7, No. 6, 2013, pp. 334-339, **Citations - 3**
  8. **D. G. Mallapur**, V. Auradi, S. A. Kori and K. Rajendra Udupa, "Studies on wear properties of forged A356 alloy with addition of grain refiner and/or modifier", *Procedia Material Science (Elsevier)*, Vol. 5, 2014, pp. 130-136, ISSN: 2211-8128, **Citations - 2**
  9. **D. G. Mallapur**, D. G. Sondur and V. R. Kabadi, "Influence of martensite phase on the tribological properties of plain carbon steel",

*Procedia Material Science (Elsevier)*, Vol. 5, 2014, pp. 464-471, ISSN: 2211-8128, **Citations - 6**

10. **D. G. Mallapur**, D. G. Sondur and K. R. Udupa, "A comparative study on the wear behavior of cast and forge aged A356 alloy with addition of grain refiner and/or modifier", *Applied Mechanics and Materials (Trans Tech Publications, Switzerland)*, Vols. 592-594, 2014, pp. 1255-1261, ISSN: 1662-7842
11. **D. G. Mallapur** and K. Rajendra Udupa, "A comparative study on the wear properties of as cast, cast aged and forge aged A356 alloy with addition of grain refiner and/or modifier", *Tribology in Industry, Journal of the Serbian Tribology Society*, Vol. 37, No. 1 (2015), pp. 81-87, ISSN: 0354-8996, **Citations - 6**
12. **D. G. Mallapur**, D. G. Sondur, D. M. Goudar and G. B. Rudrakshi, "Study of microstructure and wear behavior of T6 heat treated as cast Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu alloy", *Materials Science Forum (Trans Tech Publications, Switzerland)*, Vols. 830-831 (2015) pp. 358-361, ISSN: 1662-9752, **Citations - 2**
13. **D. G. Mallapur**, D. G. Sondur and M. D. Harlapur, "Study of the effect of pearlite phase on the tribological properties of plain carbon steel", *American Journal of Materials Science and Application*, Vol. 3, No. 4, August 2015, pp. 47-53
14. **D. G. Mallapur** and M. D. Harlapur, "Effect of Ni at constant loading on the wear behavior of 5H homogenized Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Ni alloy", *International Research Journal of Engineering and Technology*, Vol. 3, Issue 6, June 2016, pp. 2656-2659, ISSN: 2395-0056/0072
15. **D. G. Mallapur** and D. G. Sondur, "To study the wear behavior of Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Fe alloy at constant load, homogenized for 3 hour", *International Research Journal of Engineering and Technology*, Vol. 3, Issue 6, June 2016, pp. 2660-2663, ISSN: 2395-0056/0072
16. **D. G. Mallapur**, D. G. Sondur and M. D. Harlapur, "Study of the effect of ferrite phase on the tribological properties of plain carbon steel", *International Journal of Advanced Production and Industrial Engineering*, Vol. 1, No. 4, July 2016, pp. 18-22, ISSN: 2455-8419
17. **D. G. Mallapur**, Sharaschandra Kusugal and R. S. Math, "Stress and damage tolerance analysis of stiffened panel with passenger door cutout in airframe structure using FEA", *Materials Today: Proceedings (Elsevier)*, Vol. 4, Issue 10, October 2017, pp. 10696-10703, ISSN: 2214-7853, **Citations - 3**
18. **D. G. Mallapur**, Neeta S. Mathapati and Virupaxi Auradi, "Influence of heat treatment on the volumetric wear rate of Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Mn alloy", *Materials Today: Proceedings (Elsevier)*, Vol. 4, Issue 10, October 2017, pp. 10921-10926, ISSN: 2214-7853
19. **D. G. Mallapur** and M. D. Harlapur, "Wear behavioral studies on 3Hr homogenized Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Ni alloy at constant speed", *Materials Today: Proceedings (Elsevier)*, Vol. 4, Issue 10, October 2017, pp. 11010-11014, ISSN: 2214-7853
20. **D. G. Mallapur**, D. G. Sondur, "A comparative study of the tribological properties of as cast and 3Hr T6 treated Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Fe

alloy”, *Materials Today: Proceedings (Elsevier)*, Vol. 4, Issue 10, October 2017, pp. 11023-11027, ISSN: 2214-7853

21. **D. G. Mallapur**, D. Srinivas, R. S. Kadadevarmath, B. Latha Shankar, P. M. Nagraj and J. Bhaskaran “Optimization of machinability parameters of Al1100-B4C composites using Taguchi method”, *Materials Today: Proceedings (Elsevier)*, Vol. 4, Issue 10, October 2017, pp. 11305-11313, ISSN: 2214-7853, **Citations - 5**
22. **D. G. Mallapur**, D. G. Sondur and K. Rajendra Udupa, “Optimization of control factors in tribological studies for as cast and 1Hr T6 treated Al25Mg<sub>2</sub>Si2Cu4Fe alloy using Taguchi methods”, *Materials Today: Proceedings (Elsevier)*, Vol. 5, Issue 2, Part 2, April 2018, pp. 8041-8048, ISSN: 2214-7853
23. **D. G. Mallapur**, M. D. Harlapur and K. R. Udupa, “Experimental optimization of volumetric wear behavioural study of as cast and 1Hr homogenized Al25Mg<sub>2</sub>Si2Cu4Ni alloy at constant speed based on using Taguchi method ”, *Materials Today: Proceedings (Elsevier)*, Vol. 5, Issue 2, Part 2, April 2018, pp. 8168-8175, ISSN: 2214-7853
24. **D. G. Mallapur**, M. D. Harlapur and K. R. Udupa, “Experimental analysis of volumetric wear behavioural and mechanical properties study of as cast and 1Hr homogenized Al25Mg<sub>2</sub>Si2Cu4Ni alloy at constant load”, *Advances in Mechanical Design, Materials and Manufacture, AIP Conference Proceedings*, Vol. 1943, Issue 1, April 2018, pp. 020027-1 - 020027-8, ISSN: 978-0-7354-1638-3, published by American Institute of Physics, DOI: 10.1063/1.5029603
25. **D. G. Mallapur**, M. D. Harlapur and K. R. Udupa, “Experimental wear behavioral studies of as cast and 5 hr homogenized Al25Mg<sub>2</sub>Si2Cu4Ni alloy at constant load based on Taguchi method”, *Advances in Mechanical Design, Materials and Manufacture, AIP Conference Proceedings*, Vol. 1943, Issue 1, April 2018, pp. 020074-1-020074-9, ISSN: 978-0-7354-1638-3, published by American Institute of Physics, DOI: 10.1063/1.5029650
26. **D. G. Mallapur**, M. D. Harlapur, D. G. Sondur and V. G. Akkimardi “Wear behavioral study of as cast and 7 hr homogenized Al25Mg<sub>2</sub>Si2Cu4Ni alloy at constant load”, *Advances in Mechanical Design, Materials and Manufacture, AIP Conference Proceedings*, Vol. 1943, Issue 1, April 2018, pp. 020076-1-020076-7, ISSN:978-0-7354-1638-3, published by American Institute of Physics, DOI: 10.1063/1.5029652
27. **D. G. Mallapur**, D. G. Sondur and K. Rajendra Udupa, “Effect of T6 treatment on the coefficient of friction of Al25Mg<sub>2</sub>Si2Cu4Fe alloy”, *Advances in Mechanical Design, Materials and Manufacture, AIP Conference Proceedings*, Vol. 1943, Issue 1, April 2018, pp. 020080-1 - 020080-7, ISSN: 978-0-7354-1638-3, published by American Institute of Physics, DOI: 10.1063/1.5029656
28. **D. G. Mallapur**, D. G. Sondur and K. Rajendra Udupa, “Experimental studies on mechanical properties of T6 treated Al25Mg<sub>2</sub>Si2Cu4Fe alloy”, *Advances in Mechanical Design, Materials and Manufacture, AIP Conference Proceedings*, Vol. 1943, Issue 1, April 2018, pp. 020093-1 - 020093-9, ISSN: 978-0-7354-1638-3, published by American Institute of Physics, DOI: 10.1063/1.5029669

29. **D. G. Mallapur** and M. D. Harlapur, “Wear behavioral studies on as cast and 7H forged homogenized Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Ni alloy at constant load based on Taguchi method, *Materials Today: Proceedings (Elsevier)*, Vol. 5, 2018, pp. 17820-17827, ISSN: 2214-7853
30. **D. G. Mallapur** and M. D. Harlapur, “Wear and mechanical property studies on as cast and 3H forged homogenized Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Ni alloy at constant load, *Materials Today: Proceedings (Elsevier)*, Vol. 5, 2018, pp. 17989-17995, ISSN: 2214-7853

## Conferences

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### International conferences

1. **D. G. Mallapur**, S. A. Kori, T. M. Chandrashekharaiiah and Rajendra Udupa, “Effect of solutes on the microstructures and mechanical properties of aluminium and its alloys”, *Proceedings of International Symposium on frontiers in Design of Materials*, 14<sup>th</sup> - 16<sup>th</sup> November 2005, Indian Institute of Technology, Madras, Chennai, Tamil Nadu, India, pp. 68 (AMT-324)
2. **D. G. Mallapur**, S. A. Kori and T. M. Chandrashekharaiiah, “Development of a computational model for the prediction of specific wear rate of Al-Si Alloys”, *Proceedings of International Symposium on Steels for Automotives*, 13<sup>th</sup> - 16<sup>th</sup>, November 2006, Jamshedpur, jointly organized by IIM and Tata Steel Limited, pp. 94
3. **D. G. Mallapur** and S. A. Kori, “Formation of Al<sub>3</sub>Ti/AlB<sub>2</sub> in an Al-Ti/Al-B master alloy”, *Proceedings of the 15<sup>th</sup> International Conference on Textures of Materials (ICOTOM 15)*, 01<sup>st</sup> - 05<sup>th</sup>, June 2008, Pittsburgh, PA (France), 028-108, ICOTOM08 Abs 5/9/08, pp. 104
4. **D. G. Mallapur**, K. Rajendra Udupa and S. A. Kori, “Influence of Ti, B and Sr on the microstructure and mechanical properties of A356 alloy”, *Proceedings of International Conference on Convergence of Science & Engineering in Education and Research-A Global Perspective in the New Millennium ICSE-2010*, 21<sup>st</sup> - 23<sup>rd</sup> April 2010 at Dayananda Sagar College of Engineering, Bengaluru, Karnataka, India
5. **D. G. Mallapur**, R. V. Kurahatti, S. A. Kori, A. Surendranathan, A. V. Ramesh Kumar and Saurabh Srivastava, “Effects of nano zirconia on the sliding wear of bismaleimide nanocomposite”, *Proceedings of International Conference on Convergence of Science & Engineering in Education and Research-A Global Perspective in the New Millennium ICSE-2010*, 21<sup>st</sup> - 23<sup>rd</sup> April 2010 at Dayananda Sagar College of Engineering, Bengaluru, Karnataka, India
6. **D. G. Mallapur**, R. V. Kurahatti, A. Surendranathan and S. A. Kori, “Emerging recycling technologies for polymer composites” *Proceedings of Second International Conference on Recycling and Reuse of Materials*, 05<sup>th</sup> - 07<sup>th</sup> August 2011, Kottayam, Kerala, India, IMSE, pp. 31
7. **D. G. Mallapur**, Annapurna B. Hosalli, Sameer Kulkarni, K. S. Praveen and Yamanappa Karigar, “Influence of grain refining and modification on mechanical properties of as cast, cast aged and forge aged A356 alloy - A comparative study”, *Proceedings of International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences (AMMMT-2013)*, 03<sup>rd</sup> - 04<sup>th</sup> May 2013, jointly organized by the Department of Mechanical Engineering and Industrial

Engineering and Management, Siddaganga Institute of Technology, Tumakuru, Karnataka, India, pp. 38

8. **D. G. Mallapur**, K. R. Udupa and R. V. Kurahatti, "Influence of Ti, B and Sr on the tribological properties of forged A356 alloy", *Proceedings of International Conference on Aerospace, Mechanical, Automotive and Materials Engineering (ICAMAME-2013)*, 05<sup>th</sup> - 06<sup>th</sup> June 2013, organized by World Academy of Science, Engineering and Technology, New York, United States of America
9. **D. G. Mallapur**, Auradi, S. A. Kori and K. R. Udupa, "Studies on wear properties of forged A356 alloy with addition of grain refiner and/or modifier", *Proceedings of International Conference on Advances in Manufacturing and Materials Engineering*, 27<sup>th</sup> - 29<sup>th</sup> March 2014, organized by NITK, Surathkal, Mangaluru, Karnataka, India
10. **D. G. Mallapur**, D. G. Sondur and V. R. Kabadi, "Influence of martensite phase on the tribological properties of plain carbon steel", *Proceedings of International Conference on Advances in Manufacturing and Materials Engineering (AMME-2014)*, 27<sup>th</sup> - 29<sup>th</sup> March 2014, organized by NITK, Surathkal, Mangaluru, Karnataka, India
11. **D. G. Mallapur**, D. G. Sondur and K. Rajendra Udupa, "A comparative study on the wear behavior of cast and forge aged A356 alloy with addition of grain refiner and/or modifier", *Proceedings of International Mechanical Congress (IMEC-2014)*, 13<sup>th</sup> - 15<sup>th</sup> June 2014, organized by National Institute of Technology, Tiruchirappalli, Tamil Nadu, India
12. **D. G. Mallapur**, Annapurna B. Hosalli and D. G. Sondur, "Studies on microstructure and mechanical properties of cast aged and forged aged A356 alloy with minor addition of grain refiner and/or modifier", *Proceedings of International Conference and Workshop on Advances in Mechanical Engineering, (MULTICON-W-ICWAME-2015)*, 27<sup>th</sup> - 28<sup>th</sup> February 2015, organized by Thakur College of Engineering and Technology, Kandivali (East), Mumbai, Maharashtra, India, Vol. III, ISBN: 978-0-9884925-9-2, pp. 743-747
13. **D. G. Mallapur**, D. G. Sondur, D. M. Goudar and G. B. Rudrakshi, "Study of microstructure and wear behavior of T6 heat treated as cast Al25Mg<sub>2</sub>Si2Cu alloy", *Proceedings of International Conference on Advanced Materials and Manufacturing Processes for Strategic Sectors (ICAMPS-2015)*, 13<sup>th</sup> - 15<sup>th</sup> May 2015, organized by Indian Institute of Metals (IIM), Trivandrum Chapter, Thiruvananthapuram, Kerala, India
14. **D. G. Mallapur** and Rajendra Udupa, "A comparative study on macro/micro structure and mechanical properties of cast, forged aged heat treated A356 alloy with minor addition of Ti, B and/or Si", *Proceedings of International Conference on Technological Advancements in Materials and Manufacturing for Industrial Environment*, 04<sup>th</sup> - 05<sup>th</sup> March 2016, organized by Department of Mechanical Engineering KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India and Department of Mechanical Engineering, Mokpo National University, South Korea, ISBN: 978-93-85477-74-4, pp. 35
15. **D. G. Mallapur**, D. G. Sondur, M. D. Harlapur, "A comparative study

on the wear behaviour of as cast and cast aged Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Fe alloy”, *Proceedings of International Conference on Technological Advancements in Materials and Manufacturing for Industrial Environment*, 04<sup>th</sup> - 05<sup>th</sup> March 2016, organized by Department of Mechanical Engineering KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India and Department of Mechanical Engineering, Mokpo National University, South Korea, ISBN: 978-93-85477-74-4, pp. 48

16. **D. G. Mallapur**, M. D. Harlapur and D. G. Sondur, “Effect of Ni on the wear behaviour of as cast and cast aged Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Ni alloy”, *Proceedings of International Conference on Technological Advancements in Materials and Manufacturing for Industrial Environment*, 04<sup>th</sup> - 05<sup>th</sup> March 2016, organized by Department of Mechanical Engg. KPR Institute of Engg. and Tech., Coimbatore, Tamil Nadu, India and Department of Mechanical Engg, Mokpo National University, South Korea, ISBN: 978-93-85477-74-4, pp. 49
17. **D. G. Mallapur**, D. G. Sondur, M. D. Harlapur and Neeta S. Mathapati, “Studies on the effect of ferrite phase on tribological properties of a plain carbon steel”, *Proceedings of International Conference on Technological Advancements in Materials and Manufacturing for Industrial Environment*, 04<sup>th</sup> - 05<sup>th</sup> March 2016, organized by Department of Mechanical Engineering KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India and Department of Mechanical Engineering, Mokpo National University, South Korea, ISBN: 978-93-85477-74-4, pp. 50
18. **D. G. Mallapur** and Annapurna B. Hosalli, “A comparative study on wear behaviour of as cast and T6 heat treated Al<sub>30</sub>Mg<sub>2</sub>Si<sub>4</sub>Fe alloy at elevated temperature”, *Proceedings of International Conference on Technological Advancements in Materials and Manufacturing for Industrial Environment*, 04<sup>th</sup> - 05<sup>th</sup> March 2016, organized by Department of Mechanical Engg. KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India and Department of Mechanical Engineering, Mokpo National University, South Korea, ISBN: 978-93-85477-74-4, pp. 68
19. **D. G. Mallapur**, Neeta S. Mathapati and Virupaxi Auradi, “Influence of heat treatment on the volumetric wear rate of Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Mn alloy”, *Proceedings of International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences (AMMMT-2016)*, 23<sup>rd</sup> - 24<sup>th</sup> September 2016, jointly organized by the Department of Mechanical Engineering and Industrial Engineering and Management, Siddaganga Institute of Technology, Tumakuru, Karnataka, India, pp. 23
20. **D. G. Mallapur** and D. G. Sondur, “A comparative study on the tribological properties of as cast and 3Hr T6 treated Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Fe alloy”, *Proceedings of International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences (AMMMT-2016)*, 23<sup>rd</sup> - 24<sup>th</sup> September 2016, jointly organized by the Department of Mechanical Engineering and Industrial Engineering and Management, Siddaganga Institute of Technology, Tumakuru, Karnataka, India, pp. 62
21. **D. G. Mallapur** and M. D. Harlapur, “Wear behavioural studies on 3Hr homogenized Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Ni alloy at constant speed”, *Proceedings of International Conference on Advanced Materials, Manufacturing,*



*Management and Thermal Sciences (AMMMT-2016)*, 23<sup>rd</sup> - 24<sup>th</sup> September 2016, jointly organized by the Department of Mechanical Engineering and Industrial Engineering and Management, Siddaganga Institute of Technology, Tumakuru, Karnataka, India, pp. 63

22. **D. G. Mallapur**, Sarahandra Kusugal and R. S. Kadadevarmath, “Stress and damage tolerance analysis of stiffened panel with passenger door cutout in airframe structure using FEA”, *Proceedings of International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences (AMMMT-2016)*, 23<sup>rd</sup> - 24<sup>th</sup> September 2016, jointly organized by the Department of Mechanical Engineering and Industrial Engineering and Management, Siddaganga Institute of Technology, Tumakuru, Karnataka, India, pp. 54
23. **D. G. Mallapur**, D. Srinivas D, R. S. Kadadevarmath, B. Latha Shankar, P. M. Nagraj and J. Bhaskaran, “Optimization of machinability parameters of Al1100-B4C composites using Taguchi method”, *Proceedings of International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences (AMMMT-2016)*, 23<sup>rd</sup> - 24<sup>th</sup> September 2016, jointly organized by the Department of Mechanical Engineering and Industrial Engineering and Management, Siddaganga Institute of Technology, Tumakuru, Karnataka, India, pp. 48
24. **D. G. Mallapur**, Neeta S. Mathapati and Shruti S. Walikar, “Studies on the influence of heat treatment on volumetric wear rate of Al25Mg<sub>2</sub>Si2Cu4Mn alloy”, *Proceedings of International Conference on Advanced Production and Industrial Engineering (ICAPIE-2016)*, 09<sup>th</sup> - 10<sup>th</sup> December 2016, organized by Department of Mechanical, Production and Industrial Engineering, Delhi Technological University, New Delhi, India, ISBN: 978-93-85909-51-1, pp. 26-30
25. **D. G. Mallapur**, D. G. Sondur and K. Rajendra Udupa, “Optimization of control factors in tribological studies for as cast and 1Hr T6 treated Al25Mg<sub>2</sub>Si2Cu4Fe alloy using Taguchi methods”, *Proceedings of International Conference on Emerging trends in Materials and Manufacturing Engineering (IMME-17)*, 10<sup>th</sup> - 12<sup>th</sup> March 2017, organized by the Department of Metallurgical and Materials Engineering, National Institute of Technology, Tiruchirappalli, in association with The Indian Institute of Metals(IIM) and Indian Welding Society (IWS), Tiruchirappalli, Tamil Nadu, India, pp. 81
26. **D. G. Mallapur**, M. D. Harlapur and K. Rajendra Udupa, “Experimental optimization of volumetric wear behavioural study of as cast and 1Hr homogenized Al25Mg<sub>2</sub>Si2Cu4Ni alloy at constant speed based on using Taguchi method”, *Proceedings of International Conference on Emerging trends in Materials and Manufacturing Engineering (IMME-17)*, 10<sup>th</sup> - 12<sup>th</sup> March 2017, organized by the Department of Metallurgical and Materials Engineering, National Institute of Technology, Tiruchirappalli, Tamil Nadu, India, pp. 85
27. **D. G. Mallapur**, M. D. Harlapur, D. G. Sondur and V. G. Akkimardi, “Wear behavioral study of as cast and 7Hr homogenized Al25Mg<sub>2</sub>Si2Cu4Ni alloy at constant load”, *Proceedings of International Conference on Design, Materials & Manufacture 2018 (ICDEM 2018)*, 29<sup>th</sup>-31<sup>st</sup> January 2018, organized by the Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, Mangaluru, Karnataka, India, paper id-77

28. **D. G. Mallapur**, M. D. Harlapur and K. Rajendra Udupa, “Experimental analysis of volumetric wear behavioral and mechanical properties study of as cast and 1Hr homogenized Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Ni alloy at constant load”, *Proceedings of International Conference on Design, Materials & Manufacture 2018 (ICDEM 2018)*, 29<sup>th</sup> - 31<sup>st</sup> January 2018, organized by the Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, Mangaluru, Karnataka, India, paper id-27
29. **D. G. Mallapur**, M. D. Harlapur and K. Rajendra Udupa, “Experimental wear behavioral studies of as cast and 5Hr homogenized Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Ni alloy at constant load based on Taguchi method”, *Proceedings of International Conference on Design, Materials & Manufacture 2018 (ICDEM 2018)*, 29<sup>th</sup> - 31<sup>st</sup> January 2018, organized by the Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, Mangaluru, Karnataka, India, paper id-75
30. **D. G. Mallapur**, D. G. Sondur and K. Rajendra Udupa, “Effect of T6 treatment on the coefficient of friction of Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Fe alloy”, *Proceedings of International Conference on Design, Materials & Manufacture 2018 (ICDEM 2018)*, 29<sup>th</sup> - 31<sup>st</sup> January 2018, organized by the Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, Mangaluru, Karnataka, India, paper id-81
31. **D. G. Mallapur**, D. G. Sondur and K. Rajendra Udupa, “Experimental studies on mechanical properties of T6 treated Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Fe alloy”, *Proceedings of International Conference on Design, Materials & Manufacture 2018 (ICDEM 2018)*, 29<sup>th</sup> - 31<sup>st</sup> January 2018, organized by the Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, Mangaluru, Karnataka, India, paper id-94
32. **D. G. Mallapur** and M. D. Harlapur, “Wear and mechanical property studies on as cast and 3H homogenized forged Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Ni alloy at constant speed”, *Proceedings of 8<sup>th</sup> International Conference on Materials Processing and Characterization 2018 (ICMPC 2018)*, 16<sup>th</sup> - 18<sup>th</sup> March 2018, organized by the Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, Telangana, India and Maulana Azad National Institute of Technology Bhopal, Madhya Pradesh, India, paper id-243
33. **D. G. Mallapur** and M. D. Harlapur, “Wear behavioral studies of as cast and 7H homogenized forged Al<sub>25</sub>Mg<sub>2</sub>Si<sub>2</sub>Cu<sub>4</sub>Ni alloy at constant load based on Taguchi method”, *Proceedings of 8<sup>th</sup> International Conference on Materials Processing and Characterization 2018 (ICMPC 2018)*, 16<sup>th</sup> - 18<sup>th</sup> March 2018, organized by the Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, Telangana, India and Maulana Azad National Institute of Technology Bhopal, Madhya Pradesh, India, paper id-192

### National conferences

1. **D. G. Mallapur**, V. V. Kuppast and Kotresh M, “A study of interaction between stress field parameters in reinforced composite materials”, *Proceedings of the National Conference on Advances in Materials and their Processing (AMTP)-2003*, 22<sup>nd</sup> - 23<sup>rd</sup> December 2003,

2. **D. G. Mallapur** and V. V. Kuppast, "Computer aided process developments for air separation column for cryogenic fluids", *Proceedings of the National Conference of Advances in Mechanical Engineering NAME 2004-extended abstract*, 12<sup>th</sup> - 14<sup>th</sup> February 2004, Jawaharlal Nehru National College of Engineering, Shivamogga, Karnataka, India, pp. 132-133
3. **D. G. Mallapur**, V. V. Kuppast and B. H. Vadavadagi, "Development of parametric finite element model of butterfly valve disc using active-X clients for static analysis using LISA", *Proceedings of the First National Conference on Development and Challenges in Manufacturing Engineering-2004*, Manipal Institute of Technology, MAHE, Deemed University, Manipal, Karnataka, India, pp. 86-91
4. **D. G. Mallapur** and V. V. Kuppast, "Gel casting; from research to a potential production technique", *Proceedings of the National Conference on Recent Developments in Materials Processing (RDMP-04)*, 06<sup>th</sup> March 2004, Bharathiyar College of Engineering and Technology, Karaikal, Puducherry, India, pp. 119-121
5. **D. G. Mallapur**, R. S. Kadadevarmath, T. B. Udayshankar Aradya and Smt. Latha Shankar, "Role of information technology in supply chain management", *Proceedings of the National Conference on Modern Trends in Management (MTM 2004)*, Gogte Institute of Technology, Belagavi, Karnataka, India
6. **D. G. Mallapur**, V. V. Kuppast, S. G. Saraganachari and R. V. Kurahatti, "Feature extraction from engineering two dimensional drawings for CAD/CAM Integration", *Proceedings of the National Conference on Recent Trends in Mechanical Engineering (RTIME-2004)*, 23<sup>rd</sup> - 24<sup>th</sup> July 2004, Sangivani Rural Education Society's College of Engineering, Kopargaon, Maharashtra, India, Paper number: R-TIME/P/233
7. **D. G. Mallapur**, V. V. Kuppast, D. D. Chillal and M. K. Kamath, "Effect of misalignment on performance of flexible coupling", *Proceedings of the National Conference on Recent Trends in CAD/CAM*, 29<sup>th</sup> - 30<sup>th</sup> July 2004, Guru Nanak Dev Engineering College, Bidar, Karnataka, India, pp. 13-16
8. **D. G. Mallapur**, V. V. Kuppast, D. D. Chillal and B. B. Patil, "Computer aided capacity Planning for hospitals beds", *Proceedings of the National Conference on Recent Trends in CAD/CAM*, 29<sup>th</sup>-30<sup>th</sup> July 2004, Guru Nanak Dev Engineering College, Bidar, Karnataka, India, pp. 46-51
9. **D. G. Mallapur**, S. A. Kori, L. Shenoy and R. V. Mankani, "Influence of Ti, B, Mg, Cu and Sr on the microstructure and mechanical properties of A356 Alloy", *Proceedings of National Conference on Advances in Materials Science (AMS-07)*, 18<sup>th</sup> - 19<sup>th</sup> January 2007, jointly organized by Gulbarga University, Gulbarga, Department of CCT, Poojya Doddappa Appa College of Engineering, Kalaburagi and Department of Mechanical Engineering, Basaveshwar Engineering College, Bagalkot

10. **D. G. Mallapur**, T. M. Chandrashekharaiah and S. A. Kori, "Tribological studies on A356 Alloy - An overview", *Proceedings of National Conference on World Class Manufacturing Practices (WCMP-07)*, 02<sup>th</sup> - 03<sup>th</sup> April 2007, organized by Department of Industrial and Production Engineering, Basaveshwar Engineering College, Bagalkot, Karnataka, India
11. **D. G. Mallapur**, V. V. Kuppast, M. S. Huddar and S. N. Kurbet, "Optimization of tool geometry for better surface finish by considering equivalent cutting edge for finish turning in oblique case", *Proceedings of National Conference on World Class Manufacturing Practices (WCMP-07)*, 02<sup>th</sup> - 03<sup>th</sup> April 2007, organized by Department of Industrial and Production Engineering, Basaveshwar Engineering College, Bagalkot, Karnataka, India

### **Invited Talks**

- : 1. Recent Developments in Material Sciences and Metallurgy - A case study, Invited as Resource Person, "EXCELTRON" - Student Forum at K. S. School of Engineering and Management, Bengaluru, 21<sup>st</sup> - 22<sup>nd</sup> August 2013

### **Events Organized**

- : 1. Steering Committee Member for the National Conference on advances in materials and their processing (AMTP-03), AICTE-ISTE Sponsored Short Term Training Programmes, National Conference for Research Scholars (NCRS) and International Symposium of Advanced Materials and Processing (ISAMP2007).
2. Coordinator for National Conference on "World Class Manufacturing Practices" (WCMP-07) organized by the Department of Industrial and Production Engineering, Basaveshwar Engineering College, Bagalkot under TEQIP and
3. Coordinator for TEQIP-II sponsored one day workshop on "Modern aspects of intellectual solutions on publications, patents and personal management" organized by the Department of Industrial and Production Engineering, Basaveshwar Engineering College, Bagalkot.

### **Conferences/ Symposiums/ Workshops/Training Programs Attended**

- : 1. *Induction Program for Engineering College Teachers*, organized by Karnataka University Dharward, 3<sup>rd</sup> - 23<sup>rd</sup> July 1996
2. AICTE Sponsored short term program on *Modern Manufacturing Techniques*, organized by Maulana Azad National Institute of Technology, Bhopal, 07<sup>th</sup> - 20<sup>th</sup> July 1997
3. AICTE sponsored short term program on *Mechatronics*, organized by National Institute of Technology Karnataka, Surathkal, Mangaluru, 28<sup>th</sup> July - 09<sup>th</sup> August 1997
4. Short term program on *CAD/CAM*, organized by Indian Institute of Science, Bengaluru, 03<sup>th</sup> - 07<sup>th</sup> August 1998
5. Short term program on *Finite Element Method*, organized by Indian Institute of Science, Bengaluru, 21<sup>st</sup> - 25<sup>th</sup> September 1998
6. AICTE sponsored short term program on *Recent Trends in Renewable Energy Sources*, organized by Basaveshwar Engineering College, Bagalkot, 03<sup>th</sup> - 15<sup>th</sup> September 2001

7. AICTE sponsored short term program on *Advances in Casting and Welding Technology*, organized by Basaveshwar Engineering College, Bagalkot, 24<sup>th</sup> September - 06<sup>th</sup> October 2001
8. Two days workshop on *Technical Challenges in the New Millennium*, organized by Basaveshwar Engineering College, Bagalkot, 03<sup>rd</sup> - 04<sup>th</sup> November 2001
9. AICTE sponsored short term program on *Processing of Composite Materials*, organized by Basaveshwar Engineering College, Bagalkot, 26<sup>th</sup> August - 07<sup>th</sup> September 2002
10. AICTE sponsored short term program on *Robotics and Automation*, organized by National Institute of Technology Karnataka, Surathkal, Mangaluru, 24<sup>th</sup> February - 08<sup>th</sup> March 2003
11. Two days national workshop on *Intellectual Property Rights Studies*, organized by Basaveshwar Engineering College, Bagalkot, 17<sup>th</sup> - 18<sup>th</sup> February 2006
12. AICTE sponsored short term program on *Recent Trend in Application in Finite Element Analysis*, organized by Basaveshwar Engineering College, Bagalkot, 06<sup>th</sup> - 11<sup>th</sup> March 2006
13. AICTE sponsored short term program on *Vision - R & D*, organized by Basaveshwar Engineering College, Bagalkot, 20<sup>th</sup> - 25<sup>th</sup> March 2006
14. AICTE sponsored short term program on *Recent Trends in Industrial Engineering*, organized by Basaveshwar Engineering College, Bagalkot, 26<sup>th</sup> February - 02<sup>nd</sup> March 2007
15. AICTE sponsored short term program on *Tribology - Past, Present and Future*, organized by Basaveshwar Engineering College, Bagalkot, 02<sup>nd</sup> - 07<sup>th</sup> April 2007
16. One week short term program on *Material Development, Manufacturing and Characterization*, organized by Basaveshwar Engineering College, Bagalkot, 16<sup>th</sup> - 27<sup>th</sup> April 2007
17. Three days workshop on *Electron Microscopy*, organized by National Institute of Technology Karnataka, Surathkal, Mangaluru, 08<sup>th</sup> - 10<sup>th</sup> March 2008
18. One week winter school on *Advances in Non-Destructive Testing and its Applications*, organized by National Institute of Technology Karnataka, Surathkal, Mangaluru, 19<sup>th</sup> - 24<sup>th</sup> January 2009
19. One week faculty development program on *Robotics and Nanotechnology*, organized by Basaveshwar Engineering College, Bagalkot, 03<sup>rd</sup> - 08<sup>th</sup> February 2009
20. Workshop on *Six Sigma Black Belt*, organized by Siddaganga Institute of Technology, Tumukuru, 22<sup>nd</sup> - 27<sup>th</sup> July 2013
21. One day workshop on *Modern Aspects of Intellectual Solutions*, organized by Basaveshwar Engineering College, Bagalkot, 7<sup>th</sup> December 2013

22. Two days faculty development program on *Composites and their Applications*, organized by Basaveshwar Engineering College, Bagalkot, 14<sup>th</sup> - 15<sup>th</sup> March 2014
23. Three days workshop on *Cloud Computing*, organized by Nihon Communications, Bengaluru, 16<sup>th</sup> - 18<sup>th</sup> January 2015
24. One day work shop on *STP Techniques with Emphasis on Repetitive Corrugation and Straightening (RCS)*, organized by Basaveshwar Engineering College, Bagalkot, 03<sup>rd</sup> September 2016
25. Three days workshop on *Advanced Materials and Manufacturing*, organized by National Institute of Technology Karnataka, Surathkal, Mangaluru, 28<sup>th</sup> - 30<sup>th</sup> September 2016
26. Three days workshop on *Management Capacity Enhancement Programme for Administrative Heads*, organized by Indian Institute of Management, Bengaluru, 23<sup>rd</sup> - 25<sup>th</sup> January 2017
27. Four days faculty development program on *Biology for Engineers*, organized by Indian Institute of Technology Mumbai at Basaveshwar Engineering College, Bagalkot, 01<sup>st</sup> - 04<sup>th</sup> February 2017
28. Two days E - workshop program on *AICTE Examination Reform Policy*, organized by Basaveshwar Engineering College, Bagalkot, 06<sup>th</sup> - 07<sup>th</sup> May 2020
29. National level one week faculty development program on *Program on Machine Learning Based Project Architecture Design*, organized by Basaveshwar Engineering College, Bagalkot, 15<sup>th</sup> - 19<sup>th</sup> June 2020
30. Four days faculty development program on *Current Trends in Mechanical Engineering*, organized by SJM Institute of Technology, Chitradurga, 22<sup>nd</sup> - 25<sup>th</sup> June 2020
31. One week faculty Development Program on *Solar Energy - The Future is Bright*, REVA University, Bengaluru, 25<sup>th</sup> - 29<sup>th</sup> June 2020 (Online)
32. One week faculty development program on *Recent Innovations in Mechanical Engineering and Scope for Entrepreneurship*, organized by Nawab Shah Alam Khan College of Engineering and Technology, Hyderabad, 29<sup>th</sup> June - 05<sup>th</sup> July 2020 (Online)
33. One week TEQIP - III sponsored faculty development program on *Six Sigma*, organized by Basaveshwar Engineering College, Bagalkot, 06<sup>th</sup> - 10<sup>th</sup> July 2020
34. One week faculty development program on *Applications on Thermodynamics*, organized by PES Institute of Technology and Management, Shivamoga, 13<sup>th</sup> - 17<sup>th</sup> July 2020 (Online)
35. Online International Conference on *Advanced Materials*, organized by P. C. Jabin Science College, Hubballi, 20<sup>th</sup> July 2020
36. One week faculty development program in *Engineering Analysis for Thermofluids Research Challenges using ANSYS*, organized by Visvesveraya Department of Mechanical Engineering, Kalaburagi,

27<sup>th</sup> - 31<sup>st</sup> July 2020 (Online)

37. Five Days on line faculty development program on *Green Energy for Sustainable Indian Centric Approach*, organized by Bheemanna Khandre Institute of Technology, Bhalki, 10<sup>th</sup> - 14<sup>th</sup> August 2020
38. Five Days virtual faculty development program on *Applications of Fluid Dynamics and Advanced Materials*, organized by Bheemanna Khandre Institute of Technology, Bhalki, 24<sup>th</sup> - 28<sup>th</sup> August 2020
39. Five Days virtual faculty development program on *Material Processing and Characterization: Current Perspectives*, organized by Bangalore Institute of Technology, Bengaluru, 31<sup>st</sup> August - 04<sup>th</sup> September 2020
40. AICTE-QIP sponsored online short term course (one week) on *Future of Industrial Automation (FIA - 2020)*, organized by Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, 05<sup>th</sup> - 10<sup>th</sup> October 2020
41. Five day online faculty development program on *Universal Human Rights for DEEKSHARAMBH (Student Induction Program)*, organized by National Institute of Technology, Patna, 23<sup>rd</sup> - 27<sup>th</sup> November 2020
42. One day workshop on *Design Thinking, Critical Thinking and Innovation Design*, organized by B L D E Associations Vachana Pitamaha Dr. P. G. Halakatti College of Engineering and Technology, Vijayapura, 11<sup>th</sup> January 2021
43. AICTE Training and Learning (ATAL) Academy online faculty development program on *Sustainability Engineering*, organized by Poojya Doddappa Appa College of Engineering, Kalaburagi, 08<sup>th</sup> - 12<sup>th</sup> February 2021
44. One week national level online faculty development programme on *Advances in materials and manufacturing*, organized SJM Institute of Technology, Chitradurga, 12<sup>th</sup> - 17<sup>th</sup> July 2021 (Online)

**Awards and Honors** : -----