

Faculty Profile



Name : Dr.N.S.MOHAN

1. **Designation :** Professor, Department of Mechanical & Manufacturing Engineering.
Manipal Institute of Technology
Manipal Academy of Higher Education. Manipal-5776104
India
Ph.No: 9986886338
Email: ns.mohan@manipal/edu/ns_mohan@yahoo.com
2. **Qualification:** B.Engg [Mechanical Engg. Mysore University]
M.Tech [Production Tech. Mysore University]
Ph.D [Composite Materials. Manipal University]
3. **Years of Teaching/
Research Experience:** 30 years.
4. **Research Interests:** Composites and sandwiches, Processing and Characterization, Machinability - Composites of recycled materials, Renewable energy systems.
5. **Area of Specialization/ Expertise / Research::** Composite materials
6. **Subjects taught:** Composite materials, Turbomachinery, Thermodynamics, Advanced materials testing, Machine tool technology, Renewable energy systems. Etc.,
7. **Association / Contribution / Recognition at Global Level: :**
Sponsorship by Manipal University to attend the international conference on surface science in Stockholm, Sweden. Publishing twelve research papers in indexed journals under faculty research and incentive award scheme.
8. **Association / Contribution / Recognition in the Country:**
 - ❖ Awarded Manipal Research fellowship by Manipal Research Fellowship foundation for pursuing the doctoral research work
 - ❖ Participated in promotional campaign organized by the National Educational conclave 2006 a higher education awareness seminar in Gwalior organized by Edu Cel and represented MAHE MANIPAL.
9. **Awards:**
 - ❖ Awarded Manipal Research fellowship by Manipal Research Fellowship foundation for pursuing the doctoral research work.
 - ❖ Awarded best of paper in recognition of valuable contributions to The International Joint Conference on Science & Technology 2017.

10. Membership of the Professional bodies

- ❖ Fellow of academy of General Education. Manipal.
- ❖ Fellow of Institute of Engineers
- ❖ Member of Indian Society for Technical Education
- ❖ Guideship by Manipal University.
- ❖ Coordinator for the Adjunct faculty program
- ❖ Member of Institute of Research Engineers and Doctors [IRED]
- ❖ Member of Hong Kong Society of Mechanical Engineers
- ❖ Member of IAENG International Associations of Engineers.
- ❖ Membership of the Editorial Board of the UPI Journal of Engineering and Technology (UPI-JET)

11. Reviewer of the journals / conferences

- ❖ Journal of Materials Processing Technology [JMPT].
- ❖ Journal of Mechanical Engineering.
- ❖ Indian journal of Engineering and Material Science.
- ❖ Journal of Engineering Manufacture.
- ❖ Journal of The institute of Engineers [India]: Series D.
- ❖ Journal of Research in Aeronautical and Mechanical Engineering - IJRAME
- ❖ International journal of Research in Mechanical Engineering & Technology [IJRMET]
- ❖ International Journal of Material Science and Engineering [IJMSE]
 - ❖ International Journal of Research in Engineering & Technology
 - ❖ IJRDT International Journal of Engineering and Technology
 - ❖ IJSRD (International Journal for Scientific Research and Development

12. Keynote speaker on "Influence of Machining of GFRP composites" at 4th World Conference on applied Sciences, Engineering and Technology [WCSET-2015] at Graduate School and Technology, Kumamoto University University, Japan during 24-26 October 2015.

13. Paper publication details - Journals (National & International), Conferences

• **Journal Publications**

1. **N.S.Mohan**, A. Ramachandra and S.M. Kulkarni "Machining of Fiber-reinforced Thermoplastics: Influence of Feed and Drill Size on Thrust Force and Torque during Drilling" Journal of Reinforced Plastics and Composites. Volume 24, No.1247, 1247-1257 [2005]
2. **N.S.Mohan**, A. Ramachandra and S.M. Kulkarni "Influence of process parameters on cutting force and torque during drilling of glass fiber polyester

- reinforced composites " Composite Structures, Volume 71, Issues 3-4, December 2005, 407-413.
3. **N.S.Mohan**, A. Ramachandra and S.M. Kulkarni "Optimization of Process Parameters during Drilling of Glass-Fiber Polyester Reinforced Composites using DOE and ANOVA" IIUM Engineering Journal, Volume 7, No, 1, 2006.
 4. **N.S.Mohan**, A. Ramachandra and S.M. Kulkarni "Analysis of delamination in drilling of Glass Fiber Reinforced Plastic Composite Materials" Journal of Material Processing Technology, Volume 186, Issue 1-3, 2007.
 5. **N.S.Mohan**, A. Ramachandra and S.M. Kulkarni "Response Surface Analysis of Surface Roughness in Drilling of Glass-Fiber Reinforced Plastic [GFRP] Composite Materials" has been published by Journal of Physics - Conference Series.
 6. **N.S.Mohan**, A. Ramachandra and S.M. Kulkarni "Response Surface Analysis of cutting force during Drilling of Glass Fiber Reinforced Plastic [GFRP] Composites" is being communicated for publication in the Journal of Mechanical engineering.
 7. **N.S.Mohan**, Jagannath K, S.S.Sharma, Chandrashekar Bhat "Optimization of drilling conditions of Glass fibre reinforced plastic composite material using genetic algorithm" World Journal Of Engineering, volume 7, supplement 3, 2010 ISSN: 1708-5284
 8. Chandrashekar bhat¹, S.S.Sharma¹, Jagannath K¹, **N S Mohan¹** , Sathisha S G Bhat " **Prediction of Sound Attenuation Characteristics of Mufflers**" World Journal Of Engineering, volume 7, supplement 3, 2010 ISSN: 1708-5284.
 9. Jagannath K¹, S.S.Sharma² , **N S Mohan³** & P R Prabhu⁴ " **Stir Casting Technique for low Melting Point Metal**" World Journal Of Engineering, volume 7, supplement 3, 2010 ISSN: 1708-5284.
 10. Jagannath K¹, S.S.Sharma² , **N S Mohan³** & P R Prabhu⁴ " **Stir Casting Technique for low Melting Point Metal**" World Journal Of Engineering, volume 7, supplement 3, 2010 ISSN: 1708-5284.
 11. S.S.Sharma, Jagannath K², **N S Mohan³** , Charndrashekar Bhat⁴, P R Prabhu⁵ & R C Chadaga⁶ "**Thermomechanical and Precipitation Hardening of Stir-Cast Silica Reinforced Aluminium Alloy Matrix Composites**" World Journal of Engineering, volume 7, supplement 3, 2010 ISSN: 1708-5284.
 12. **N.S.Mohan** "Strategic Approach of Human Resource Management [SHRM] towards Indian Higher Education Systeem" Business Sciences International Research Journal V olume 1 Issue 2 ISSN 2321-3191.
 13. **N.S.Mohan¹**, Manjunath Shettar², Ritesh Bhat³ "Influence of Machining conditions on Glass Fiber–Reinforced Plastic Composite materials" Submitted to Int. J Industrial & Mechanical Engineering Science.
 14. N.S.Mohan, Manjunath Shettar, Ritesh Bhat "Fabrication and Investigation of Epoxy resin based Glass Fibre-Coconut Fibre Hybrid" International Journal of Mining, Metallurgy & Mechanical Engineering (IJMMME) Volume 4, Issue 1 (2016) ISSN 2320-4060 (Online).

15. N.S.Mohan, S.M.Kulkarni "Influence of Drilling Parameters on Torque during Drilling of GFRP Composites Using Response Surface Methodology" has been submitted for publication to Journal of Physics: Conference Series, IoP Publishing-UK.

• **Conference Publications:** International & National Conferences

1. "Influence of process Parameters on Cutting force and Torque during drilling of Glass-fiber Polyester Reinforced Composites" International Conference on Composite Science and Technology [ICCST/5] held in the **American University of Sharjah, Sharjah United Arab Emirates** from 1st to 3rd Feb.2005.
2. "Surface Roughness Prediction by Taguchi method in Drilling of Glass-Fiber Reinforced Thermoset Polymer Composites" Second National Conference on Mechanical engineering [NATCON.ME-2005], on 11th and 12th March 2005, sponsored by AICTE held at Ghousia college of Engineering. **Ramanagaram Karnataka.**
3. "Optimization of Process Parameter during drilling of Glass-Fiber Polyester Reinforced Composites using DOE and ANOVA" International Conference on Recent Advances in Mechanical & Materials Engineering [ICRAMME 2005] held between 30th and 31st May 2005 in Ungku Aziz Hall, **University of Malaya Kuala Lumpur, Malaysia.**
4. "Response Surface Analysis in Drilling of Glass Fiber Reinforced Plastic [GFRP] Composites" is being presented in the Asian symposium on materials and processing 2006 [ASMP 2006], held at Sofitel Central Plaza Bangkok, **Thailand** on November 9-10, 2006.
5. "Response Surface Analysis of Surface Roughness in Drilling of Glass-Fiber Reinforced Plastic [GFRP] Composite Materials" has been accepted for the presentation in the international conference on surface science from 2nd to 6th July 2007 in **Stockholm, Sweden.**
6. Attended three days work shop on Establishment & Management of Nuclear Power Projects held in Mumbai from 28th Feb to 1st march 2008, organized by PM Dimensions. Mumbai.
7. "Response Surface Analysis of Cutting force during Drilling of Glass-Fiber Reinforced Plastic [GFRP] Composite Materials" has been presented in the International Conference on Advances in Mechanical Engineering ICAME2009 organized by University of Teknologi **Mara Malaysia** on 24-25 June 2009.
8. "Optimization of drilling conditions of Glass fibre reinforced plastic composite material using genetic algorithm" has been presented in the international conference in **Shanghai China**, in June 2011.
9. Attended the International Conference on Management, Business & Economics -2013 and presented a paper titled "Strategic Approach of

Human Resource Management [SHRM] towards Indian Higher Education System" held in June 07-08 in **Vijayawada, Andhra Pradesh India.**

10. Attended 4th World Conference on applied Sciences, Engineering and Technology [WCSET-2015] at Graduate School and Technology, **Kumamoto University University, Japan** during 24-26 October 2015 and presented a paper titled "Influence of Machining conditions on Glass Fiber—Reinforced Plastic Composite materials"
11. Attended 10th International Conference on Mechanical, Manufacturing and Automatic Engineering [ICMMAT'2016] and present a paper titled "Fabrication and Investigation of Epoxy resin based Glass Fibre-Coconut Fibre Hybrid Composite Material" in Pattaya, Thailand held during Dec 14-16, 2016.
12. Participated in a three days National workshop on "Laser Processing of Materials" organized on March 9-11, 2017 by National Institute of Technology Surathkal.
13. Participated in a day work shop on Recent Advances and Challenges in Solar Thermal Systems organized on 20th March 2017 by National Institute of Technology Surathkal.
14. Presented paper titled "Influence of Drilling Parameters on Torque during Drilling of GFRP Composites Using Response Surface Methodology" and Modertator of two technical sessions held at Nusa Dua Bali, Indonesia during 27-28 September 2017.

My Vision

Educate the students/ Ph.D scholars in the domain of Mechanical Engineering to tackle Engineering and Technological problems having real world applications.

I solemnly confirm and declare that the above mentioned details are true to the best of my knowledge.

Thanking you. **Dr.N.S.Mohan**