



**Prof. Anju Sharma**

**Qualification :** M.Sc. (Hons.) Physics, M.Phil, PhD.

**Area of Specialization :** Wear Characteristics of Al alloy garnet composite developed through stir casting Technique.

**Teaching experience :**

1. Thirty years (Approx.), Post Graduate Govt. College for Girls, Chandigarh
2. One year (as Lecturer) (1990-91, 1991-92), D.A.V. College, Sector-10, Chandigarh.

**Publications :**

1. The Microstructure And Wear Behaviour Of Garnet Particle Reinforced Al Matrix Composites, S. Kumar, A. Sharma, Rama Arora, O.P. Pandey, J. Mat. Res. And Tech., 8, 5443, (2019).
2. Effect of Particle Size On Wear Behavior Of Al–Garnet Composite, Particulate Science And Technology, A. Sharma, S. Kumar, G. Singh, And O. P. Pandey,33: 234–239 Copyright # 2015 Taylor & Francis Group, Llc Issn: 0272-6351 Print=1548-0046
3. Evaluation of Sliding Behavior of Garnet Particle-Containing LM13 Alloy Composites, Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey Procedia Materials Science, 5 (2014) 953- 961.

**List of papers presented in conferences/workshops/seminars**

1. Study of Wear track and wear debris of LM13 Al alloy composite using scanning electron microscope. Anju Sharma, Rama Arora, Suresh Kumar, Gurmel Singh and O.P Pandey, Poster presentation in one day National Seminar on Fascination of Light and Photonics for life. PGGCG-11, Chandigarh, 22nd Jan, 2016.

2. Evaluation of oxidation wear performance of environment friendly Al composite. National Conference on Advance oxidation processes. Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey Oct.,2015, PU, Chandigarh.
3. Wear performance of environment friendly Al composite.Wear performance of Garnet Al composite at higher contact pressure. International Conference of Condensed Matter and Applied Physics, Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey, Oct.,2015. Bikaner.
4. Tribological Properties of Stir Cast Natural Mineral Garnet Reinforced Al Composite at Elevated temperatures, Anju Sharma, Rama Arora, Suresh Kumar, Gurmel Singh and O.P. Pandey International Conference of Advancements and Futuristic Trends in Mechanical and Materials Engineering, PTU Jalandhar, 16-18 Oct, 2014.
5. Study of Oxidative wear of Aluminium rutile Composites at Higher Contact Pressure, Rama Arora, Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey International Conference on Advance in Materials and Manufacturing Technology, AMMT 2014, Chitkara University, 10-11 Oct 2014.
6. Studies of the Wear Damage and Wear Mode Transitions in Stir Cast LM13 alloy Rutile Composites, Rama Arora, Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey, International Conference of Advancements and Futuristic Trends in Mechanical and Materials Engineering, PTU Jalandhar, 16-18 Oct, 2014.
7. Effect of Tribo-Oxide layers on the Sliding Wear Behavior of Rutile Reinforced LM13 Alloy Composites at High Temperature and Pressure, Rama Arora, Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey, Processing and Fabrication of Advanced Materials, PFAM XXIII, IIT Roorkee, 5-7 Dec, 2014.
8. Effect of Rutile reinforcement on the abrasive wear of Aluminium composite. International conference on Frontiers in Material Research and Applications , Rama Arora, Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey, FMRA-2014. SBSSTC, Ferozepur, 30-31 Oct.,2014, ISBN: 978-93-83842-92.
9. Compressive strength of mineral reinforced Aluminium Alloy composite. Rama Arora, Anju Sharma, Suresh Kumar, Gurmel Singh and O.P. Pandey, API Journal, In Press, Oct., 2015, Bikaner.

#### **Awards and Distinctions**

- Distinction in M.Phil
- 1st in Univ in M.Sc. (Hons. School)
- 1st in Univ. in B.Sc (Hons. School)