

- a. **Name:** Dr. L. Venkatesh
- b. **Qualification:** Bachelors Degree in Metallurgical Engineering, PhD in Metallurgical Engineering and Materials Science (IIT Bombay)
- c. **Designation:** Scientist `C`
- d. **Contact information:** Centre for Materials Characterization and Testing, +9140-24452488, +914024442699, venkatesh@arci.res.in
- e. **Experience:**
  - 1. Application Engineer, HEF India Private Ltd, Chennai, 16<sup>th</sup> September 2002 to 2<sup>nd</sup> March 2003
  - 2. Quality control Engineer, Lakshmi Card Clothing limited, Coimbatore, 3<sup>rd</sup> March 2003 to 22<sup>nd</sup> February 2004
  - 3. Technical Assistant, ARC International, Hyderabad, 23<sup>rd</sup> February 2004 to 26<sup>th</sup> August 2012
  - 4. Scientist `B`, ARC International, Hyderabad, 27<sup>th</sup> August 2012 to 30<sup>th</sup> September 2016
  - 5. Scientist `C` ARC International, Hyderabad, 1<sup>st</sup> October 2016 to till date
- f. **Research Areas of Interest:** Electron Microscopy, Microstructure-properties correlation in Laser cladded and Thermally sprayed coatings.
- g. **List of Publications:**

- 1. L. Venkatesh, P. Suresh Babu, G. Sivakumar, Ravi C. Gundakaram, S.V. Joshi and I. Samajdar, "Microstructural response of various chromium carbide based coatings to erosion and nano impact testing ", WEAR 386-387 (2017) 72-79
- 2. L. Venkatesh, P. Suresh Babu, Ravi C. Gundakaram, S.V. Joshi and I. Samajdar, "Morphology Dependent Hardness of Cr<sub>7</sub>C<sub>3</sub>-Ni Composite versus Orientation Independent Hardness of Cr<sub>7</sub>C<sub>3</sub> Primary Phase", Met. . Mat. Trans. A 48A (2016) 1534-1539
- 3. L. Venkatesh, I. Samajdar, K. Satya prasad, Roger D. Doherty, Manish Tak, Ravi C. Gundakaram and S.V. Joshi, "Microstructure and phase evolution in laser clad Chromium carbide-NiCrMoNb", Appl. Surf. Sci. 357 (2015) 2391-2401
- 4. L. Venkatesh, I. Samajdar, Manish Tak, Ravi. C. Gundakaram and S.V. Joshi, "Process Parameter Impact on Microstructure of Laser Clad Inconel-Chromium Carbide Layers" Mater. Sci. Forum 702-703 (2012) pp. 963-966
- 5. L. Venkatesh, Naveen M. Chavan, G. Sundararajan, "The Influence of Powder Particle Velocity and Microstructure on the Properties of Cold Sprayed Copper Coatings" J. Therm. Spray. Technol. 20(5) (2011) 1009-1021

**h. List of Patents:**

**i. Conference proceedings:**

1. Preferred orientation and orientation dependence of hardness in laser clad chromium carbide coatings, *International conference of young researchers on advanced materials*, 2017, IGCAR, Kalpakkam
2. Microstructure and property correlation in laser clad chromium carbide-Ni rich alloy metal matrix composite, *International conference of young researchers on advanced materials*, 2016, Indian Institute of Science, Bengaluru
3. Microstructural studies on cold sprayed copper coatings with different stacking fault energies, *International Conference on Electron Microscopy*, 2016, Varanasi
4. Solidification microstructure of laser clad chromium carbide-NiCrMoNb, *Solidification science and processing, November 2015*, Defence Metallurgical Research laboratory, Hyderabad
5. Electron microscopy study of laser clad chromium carbide-NiCrMoNb, *International Conference on Electron Microscopy, 2015*, Babha Atomic Energy Research Center, Mumbai
6. Investigation of rapidly solidified microstructure of laser clad Inconel-Chromium carbide layers, *International Conference on Electron Microscopy, 2013*, Saha institute of nuclear physics, Kolkata

**j. Contribution to books:**

**k. Affiliation to professional societies:**

1. Life member of Electron Microscopy Society of India
2. Life member of Materials Research Society of India
3. Associate member of Indian Institute of Metals

**l. Awards and Honors:**

1. 1<sup>st</sup> prize in the Scanning Electron Micrograph contest in the International Conference on Electron Microscopy, 2013, Saha Institute of Nuclear Physics, Kolkata
2. Gold Medalist in Diploma in Metallurgy

