

Curriculum Vitae

Vakkalagadda M R Kumar

Email: ravindra.btw@gmail.com

Previous academic qualifications:

Master of Technology:

Year of passing: 2011

Specialization: Manufacturing Science and Engineering

Cumulative grade point average: 9.22 (on a 10-point scale)

Institute: Indian Institute of Technology Kharagpur, India.

Bachelor of Technology:

Year of passing: 2009

Specialization: Mechanical Engineering

Percentage of marks: 82.28

Institute: Koneru Lakshmaiah College of Engineering

University: Acharya Nagarjuna University, Guntur (Andhra Pradesh), India.

Publications based on Ph.D work

Journal publications:

1. Vakkalagadda, M.R.K., Srivastava, D.K., Mishra, A., Racherla, V., (2015), Performance analyses of brake blocks used by Indian Railways, *Wear*, **328-329**, 64-76.
2. Vakkalagadda, M.R.K., Vineesh, K.P., Racherla, V., (2015), Estimation of railway wheel running temperatures using a hybrid approach, *Wear*, **328-329**, 537-551.
3. Vakkalagadda, M.R.K., Vineesh, K.P., Mishra, A., Racherla, V., (2015), Locomotive wheel failure from gauge widening/condemning: Finite element modeling and identification of underlying mechanism, *Engineering Failure Analysis*, **57**, 143-155.
4. Vakkalagadda, M.R.K., Vineesh, K.P., Mishra, A., Racherla, V., (2016), Locomotive wheel failure from gauge widening/condemning: Effect of wheel profile, brake block type, and braking conditions, *Engineering Failure Analysis*, **59**, 1-16.
5. Vineesh, K.P., Vakkalagadda, M.R.K., Tripathi, A.K., Mishra, A., Racherla, V., (2016), Non-uniformity in braking in coaching and freight stock in Indian Railways and associated causes, *Engineering Failure Analysis*, **59**, 493-508.

Conference proceedings:

1. Vakkalagadda, M.R.K., Racherla, V., (2013), Train dynamics model for analyzing heat dissipation in locomotive and wagon wheels, *Proceedings of the International Conference on Computer Aided Engineering*, IIT Madras, India, 642-646.
2. Vakkalagadda, M.R.K., Racherla, V., (2014), Heat partition analyses for tread braking on railway wheels, *Fifth International Congress on Computational Mechanics and Simulation (ICCMS)*, Madras, India.
3. Vineesh, K.P., Vakkalagadda, M.R.K., Srivastava, D.K., Mishra, A., Racherla, V., (2015), Analyses of temperatures in locomotive wheels fitted with cast iron and composite brake blocks, *Indian Conference on Applied Mechanics (INCAM)*, IIT Delhi, India, 64-69.