

FACULTY PUBLICATION



TANWEER ALAM

Assistant Professor

Indian Institute of Technology (Indian School of Mines) Dhanbad
IIT (ISM) Dhanbad, Department of Mining Machinery Engineering
Dhanbad, Jharkhand, India-826004

Phone No: 0326-2235947

Email Id: tanweer@iitism.ac.in

Publications

International Journal

Alam, T. and Kumar, R. (2018), *Radiation based calibration of thin film gauge for transient measurement*, Measurement, vol. 128, pp. 352-361.

Alam, T. and Kumar, R. (2018), *Heat flux measurement analysis from thin film gauge in convective heat transfer mode*, Transactions of the Institute of Measurement and Control, <https://doi.org/10.1177/0142331217752041>

Alam, T., Khan, M. K., Pathak, M., Ravi, K., Singh, R., and Gupta, S. K. (2011), *A review on the clad failure studies*, Nuclear Engineering and Design, vol. 241 (9), pp. 3658-3677.

National Journal

Alam, T., and Kumar, B. (2018), *Effect of coating thickness on SI engine performance*, Journal of Mines Metals and Fuels, vol. 46 (4), pp.256-262.

Conference Papers

IEEE Xplore Digital Library (online available)

Alam, T., Kumar, B., Babu, M. N., Azam, S., and Kumar, R. (2016), *Hole size and location optimization in pressure vessel*, 2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT), 3-5 March 2016, Chennai, India, Published in IEEE, DOI: 10.1109/ICEEOT.2016.7754950.

Alam, T., Upadhyay, U., Azam, S., and Kumar, R. (2016), *Heat pipe mass optimization for space applications*, 2016 3rd International Conference on Recent Advances in Information Technology (RAIT), 3-5 March 2016, IIT(ISM) Dhanbad, India, Published in IEEE, DOI: 10.1109/RAIT.2016.7507907.

Goswami, R., Kumar, R., and **Alam, T.** (2016), *Two dimensional transient heat flux analysis through platinum plate*, 2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT), 3-5 March 2016, Chennai, India, Published in IEEE, DOI: 10.1109/ICEEOT.2016.7755179.

Kumar, B., and **Alam, T.** (2016), *Excavator bucket tooth wear analysis*, 2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT), 3-5 March 2016, Chennai, India, Published in IEEE, DOI:10.1109/ICEEOT.2016.7755328.

Babu, M. N., **Alam, T.**, and Kumar, P. (2016), *Coating Effect on Engine Piston Thermal Behaviour*, Sixth International Congress on Computational Mechanics and Simulation (ICCMS-2016), 27th June-1st July 2016, IIT Bombay, Powai, Maharashtra, India.

Alam, T., Babu, M. N., and Kumar, P. (2016), *Analysis of Internal Fixation Plate*, Sixth International Congress on Computational Mechanics and Simulation (ICCMS-2016), 27th June-1st July 2016, IIT Bombay, Powai, Maharashtra, India.

Alam, T., Kumar, B., and Babu, M. N. (2016), *Ceramic Coating Effect on I.C. Engine Performance*, International Conference on Nanotechnology For Better Living (NBL 2016), IIT Kanpur and NIT Srinagar, India. DOI: 10.3850/978-981-09-7519-7nbl16-rps-250, Research Publishing, Singapore.

Alam, T., Upadhyay, U., Azam, S., and Kumar, R. (2015), *Optimization of mass of a heat pipe for space applications using Ant Colony Optimization*, 5th International Conference on Advances in Energy Research (ICAER-2015), December 2015, IIT Bombay, Powai, Maharashtra, India.

Singh, S. P., **Alam, T.** and Chattopadhyay, S., (2013), *A Review on the Excavator Tool Bits Wear*, Conference: 1st International and 16th National Conference on Machines and Mechanisms (iNaCoMM2013), IIT Roorkee, India.

Singh, K. K., and **Alam, T.** (2013), *Analysis of the Cuttability of Coal for Continuous Miner*, Conference: 1st International and 16th National Conference on Machines and Mechanisms (iNaCoMM2013), IIT Roorkee, India.

Alam, T. (2013), *Experimental and Numerical Investigation of Heat and Mass Transfer During Cooling of Vegetables*, International Conference on Advancements in Smart Technologies for Mechanical Engineering (STME-2013), DTU, Delhi, India.

National Conference

Sinha, S. K., **Alam, T.**, and Ojha, U. (2018), *Stress Analysis of Jaw Plates in Jaw Crushers*, 3rd National Conference on Mining Equipment: New Technologies, Challenges & Applications (MENTCA - 2018), IIT (ISM) Dhanbad, India.

Kumar, B., **Alam, T.**, and Ojha, U. (2018), *Failure Analysis of Turbocharged Diesel Engine*, 3rd National Conference on Mining Equipment: New Technologies, Challenges & Applications (MENTCA - 2018), IIT (ISM) Dhanbad, India.

Babu, M. N., and **Alam, T.** (2013) *Analysis of stress variation in pressure vessel with the change in size and location of hole*, Indian Conference on Applied Mechanics (INCAM-2013), IIT Madras, India.

Alam, T., and Babu, M. N. (2013), *Simultaneous Heat and Mass Transfer Analysis during Air Blast Precooling of Fruits*, 3rd National Conference on Refrigeration and Air Conditioning (NCRAC-2013), IIT Madras, India.

Ansari, F. A., Hamid, M., **Alam, T.**, Hassan, M. A. (2006), *Experimental and Numerical Investigation of Heat and Mass Transfer during Cooling of Fruits*, National Conference on Advances in Mechanical Engineering (ECKAME-2006), March 18- 19, 2006, Engineering College, Kota, Rajasthan, India.

**Workshop/Short Term
Course**

Participated in the International Workshop on “*Recent Trends in Flow Visualization*” at IIT Roorkee, December 29-31, 2009.

Participated in National Symposium on “*Ethics in Science and Technology*” at Patna Women’s College, Patna University on 22nd August, 2009.

Participated in the Summer School Course on “*Harnessing Renewable Energy: State-of-the-art*” sponsored by MHRD, Govt. of India/AICTE at NIT Patna during June 16-29, 2008.
