

CURRICULUM VITA

Name Aditya Kumar Lohar

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A.K. Lohar, born on 29th day of January, 1971 in West Bengal, received his Master of Technology (Foundry specialization) from Department of Mechanical Engineering, Indian Institute of Technology, Kharagpur in 1996 and Bachelor of Engineering (Mechanical Engineering) degree from Regional Engineering College, Rourkela (Presently known as National Institute of Technology, Rourkela) in 1993. He joined as a Scientist in Foundry department at Central Mechanical Engineering Research Institute, Durgapur in 1997 after spending one year in foundry industry. He is continuing at CMERI, Durgapur as Scientist. His keen interest in research has led him to join the Department of Metallurgical and Materials Engineering, Indian Institute of Technology Kharagpur as a sponsored research Scholar to pursue his Doctoral degree.

His main area of specialization includes processing and characterisation of ferrous and non-ferrous cast alloys. He has worked on several application-oriented projects sponsored by government agencies and private agencies. Those projects were mainly on product development through solidification processing route. He started working on composite materials in 1995 during M. Tech thesis work. He is now actively involved in the microstructure-mechanical property correlation of investment cast metal matrix composite. He has received DAAD fellowship award and done part of this research work at TU Bergakademie, Freiberg, Germany.

Publication from the work

Journal

Lohar A. K., Mondal B., Rafaja D., Klemm V., Panigrahi S. C. (2009), Microstructural investigations on as-cast and annealed Al–Sc and Al–Sc–Zr alloys, *Materials Characterisation*, Vol. 60, pp. 1387-1394

Lohar A. K., Mondal B. N. and Panigrahi S. C. (2010), Effect of Mg on the microstructure and mechanical properties of Al_{0.3}Sc_{0.15}Zr/ (TiB₂)_p composite, accepted for publication in *Journal of Materials Engineering and Performance*.

Lohar A. K., Mondal B. N. and Panigrahi S. C. (2010), Influence of cooling rate on the as cast ageing behavior of cast Al-Sc-Zr alloy, *Journal of Materials Processing Technology* Vol. 210 pp. 2135-2141.

Conference

Lohar A. K., Das S. K., Mula S., Chakraborty D., Mondal B. N. and Panigrahi S. C., Technological aspect of particulate reinforced Investment Cast metal matrix composite production, National Conference on Investment Casting at CMERI Durgapur, September 22-23, 2003

Lohar A. K., Mondal B. and Panigrahi S.C., Scandium & Zirconium additions to the Aluminium Alloys, National Symposium on Investment Casting (NSIC-2006) during January 6-7, 2006 at Howrah

Lohar A. K., Mondal B. and Panigrahi S. C., An investigation of the effect of scandium on Aluminium alloy; for the production of heat resistant cast component, International Conference on Advanced Manufacturing Technology (ICAMT-2007) during 29-30th November, 2007, CMERI Durgapur, pp 512-18

Lohar A. K., Dutta Majumder J., Mondal B. N. and Panigrahi S. C, Effect of Sc and Zr addition on the corrosion behavior of Al-Mg alloys and Al-Mg alloys reinforced with (TiB₂)_p. NMD-ATM-2009 at Kolkata during 14-17th November 2009.

Lohar A. K., Mondal B. N. and Panigrahi S. C., Investment Casting of Al-Mg-Sc-Zr Alloys for Aerospace Applications, Optimizing Performance and affordability of Aerospace Materials, AEROMAT-2010, June 21-24, 2010, Meydenbauer Center, Bellevue, WA, USA