

Vitae

Sudip Kumar Samanta born on 19th January 1971 in Midnapore District of West Bengal. He has done his schooling from Gobardhanpur Pramathanath Vidyatan, Gobardhanpur, Midnapore. He completed his graduation in Mechanical Engineering from Siddhaganga Institute of Technology, Tumkur, India in 1993. Eager to pursue higher education, he joined Regional Engineering College, Durgapur for Masters Degree. He completed his Masters Degree in Design and Production Engineering in 1995. Among all, he selected field of research which gave him the idea of joining Central Mechanical Engineering Research Institute (CMERI), Durgapur as Junior Research Fellow, where he started his career in the area of metal casting technology and simulation of the same. Subsequently, he felt keen interest in the area of powder injection moulding, a new near net-shape manufacturing process and deputed to Tohoku National Industrial research Institute, Japan availing JICA fellowship to pursue the research work on this subject. His interest to go deep into the subject was the reason for joining for Ph.D. at Indian Institute of Technology Kharagpur as Sponsored Research Scholar while continuing his service as Scientist at CMERI, Durgapur. He was awarded DAAD fellowship to pursue part of his research work at Foundry Institute, Aachen, Germany. Till date he has sphere headed many projects, some of which are directly implemented in the industries. His research interest also lies in the field of rheocasting, micro-manufacturing and modelling of various manufacturing processes. He has 2 patents and published 11 papers in national and international journals and conference proceedings and few are in review. He has also participated in several national and international seminars and conferences. He possesses a friendly nature, good communication skills and qualities for working in a group. He has been actively participating in the various academic as well as extracurricular activities. A part of the results contained in the present thesis have been published as shown below.

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Journals

Samanta, S. K., Chattopadhyay, H., Pustal, B., Berger, R., Godkhindi, M.M. and Polaczek, A.B. (2008), A numerical study of solidification in powder injection moulding process, International Journal of Heat and Mass Transfer, Vol. 51, No. 3-4, pp 672-682.

Samanta, S.K., Chattopadhyay, H. and Godkhindi, M.M., Modeling the powder-binder separation in injection stage of PIM, submitted to Progress in Computational Fluid Dynamics (paper accepted and awaiting publication).

Samanta, S.K., Chattopadhyay, H. and Godkhindi, M.M., Investigations on phase segregation in the injection stage of PIM process, submitted to ASME Journal of Manufacturing Science and Engineering (Review in progress).

Samanta, S.K., Chattopadhyay, H. and Godkhindi, M.M., Thermo-physical characterization of binder and feedstock for single and multiphase flow of PIM 316L feedstock, submitted to Journal of Materials Processing Technology (Review in progress).

Conferences

Samanta, S. K., Chattopadhyay, H., Pustal, B., Berger, R., Godkhindi, M.M. and Polaczek, A.B. (2008), Simulation of mould filling in powder injection moulding, 19th National & 8th ISHMT-ASME Heat and Mass Transfer Conference, 3-5th January, JNTU, Hyderabad, India.

Samanta, S.K., Chattopadhyay, H. and Godkhindi, M.M. (2010), Modelling of phase segregation phenomenon in metal injection moulding, Intl. Conference on Investment Casting, 22-24th January, CMERI, Durgapur, India.