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The Role of Fundamental Research in Steel Plant R&D

By

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Date and Time

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Zoom link for the event

<https://zoom.us/j/91022556579?pwd=MjExMkFFMW1Sa1paTWpFRWIZK0FNZz09>

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Abstract

The general narrative or the myth that steel plant R&D is routine and less creative is challenged and subdued in this presentation. To demonstrate this, our recent, tri-partite, collaborative studies involving Government agency, Steel and Refractory makers shall be presented and discussed. As specific examples, two different problems in the general arena of Tundish metallurgy and Continuous casting shall be taken up and examined, albeit briefly. Plant data based fundamental models for cleanliness assessment and a new ladle shroud gas delivery design for improved ladle shroud performance shall be highlighted. Supporting operating data from steel plants shall be applied wherever necessary to substantiate the present work.



Professor Dipak Mazumdar has been teaching and conducting research at IIT Kanpur since 1987. He was a former chairperson of the Dept of Materials Sc. and Engg., IIT Kanpur and held the distinguished Ministry of Steel Chair during the period 2012-2017.

Professor Mazumdar has coauthored three books, written book chapters and over hundred sixty-five scientific articles in peer reviewed journals and conference proceedings. His contributions to ladle metallurgy steelmaking, tundish metallurgy and continuous casting are well known. Professor Mazumdar, a Fellow of the Indian National Academy of Engineering (INAE) as well as the Indian Institute of Metals (IIM), is the recipient of fifteen national and international awards, including Distinguished Educator award from two large Indian professional bodies, INAE (Indian National Academy of Engineering) and IIM (Indian Institute of Metals) respectively. An internationally recognised personality in steel education and research, Prof. Mazumdar also works as a consultant for more than a dozen steel and refractory industries in the country.

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