

## PRESS RELEASE

# A comprehensive guide for Failure Investigation of Boiler Tubes is crucial for the world of Metallurgy and Engineering says co-author and renowned metallurgist Paresh Haribhakti

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**Book Launch:** ASM International, the world's largest and most established materials information society announced the launch of "Failure Investigation of Boiler Tubes: A Comprehensive Approach". The book is co-authored by acclaimed metallurgist Paresh Haribhakti from TCR Advanced, Dr. P.B. Joshi and Dr. Rajendra Kumar. This publication provides valuable insights on real-life challenges faced with boiler tubes; assists in prevention of failures, improving maintenance that would lead to higher safety and subsequently an improved economy.

"Failure Investigation of Boiler Tubes: A Comprehensive Approach" is a compilation of an exhaustive knowledge repository with over four decades of practical issues impacting boiler tube performance. The book provides an extensive guide on challenges and remedial measures for metallurgists, practicing engineers and non-metallurgists working across the power generation industry.

According to Paresh Haribhakti, co-author and Managing Director for TCR Advanced, "All the three co-authors deliberated for over 2 years on how to present an integrated and organized view on the topic of Failure Analysis of Boiler tubes. We have written a book that addresses all the aspects of boilers and includes both, the theoretical as well as the practical side of failure investigation. 50% of this book is dedicated to case studies with actual client industrial problems while elucidating remedial measures." This edition intends to serve as a reference guide to proactively spot an issue and take corrective action to mitigate failures.

The publication is relevant for anybody in the world of engineering working with boilers in different capacities. According to the authors, this book is a representation of the entire sector that has evolved in the second half of the century and will serve as a useful read for the management team, boiler operations and maintenance team, private laboratories as well as consulting, certification agencies and even students who intend to work in this space. Dr. Rajendra Kumar, Director National Metallurgy Laboratory, India and one of the co-authors highlighted that "Mechanical engineers manufacture and manage boilers however, they employ the services of metallurgists only when a problem arises. The book aims to integrate all disciplines and aspects of failure to provide comprehensive information on mitigating down time". He further added, "The title of the book draws its name from this thought".

The prestigious ASM International is publishing the book under Material Resource Journal. As highlighted by the co-author Dr. Prakash Joshi, an academician, "We are elated that the American Society for Metals, the oldest and the most revered organization with a presence in 120 countries across the world, has agreed to review and publish the book on their global platform. The ASM maintains very high standards of publication and very few authors from the Indian sub-continent have had the opportunity to publish with them" Mr. Haribhakti agrees, adding "Our work also got accepted owing to TCR's legacy and massive credibility built over the last four decades serving some of the biggest clients across the world". The book is scheduled for a launch in September 2018 and is available online on the ASM International website. This is a unique opportunity for both metallurgists and non-metallurgists to get an exhaustive understanding of all facets related to Boiler Tube failure.

### About ASM International

Founded in 1913 and headquartered in Ohio, United States, ASM International, formerly known as the American Society for Metals, is a professional organization for materials scientists and engineers. ASM provides several information resources, including the ASM Handbooks, a series of reference books that provide data on various types of metals. These handbooks are recognized as a standard reference in the field of materials science for over 29,000 members.

### About the Authors

**Paresh Haribhakti** is the managing director of TCR Advanced Engineering Services, Vadodara, India (a TCR Engineering Services partner company). With over two decade of experience in the field of metallography and microstructural examination. Mr. Haribhakti has solved more than 6000 industrial problems and led over 600 boiler investigations. He is pioneer in promoting in-situ metallography and high end metallurgical assessments as an acceptable and reliable technique for monitoring of process plants as asset optimization and components in the industries. Mr. Haribhakti is a Founder member of Metallography Society, India. He is an active member of the Institute of Engineers, Institute of Foundry men, Indian Institute of Metals and Indian Institute of Welding, NACE and ASM.

**Dr. P.B. Joshi** is an academician with more than 35 years of teaching and research experience in the field of metallurgy. He is the former Head of the Department of Metallurgical and Materials Engineering, Faculty of Technology and Engineering, University of Baroda, Vadodara. He has over 60 research publications in the journals of International & National repute and has authored a book entitled "Materials for Electrical and Electronic Contacts" published from USA in the year 2004. He holds an Indian patent on development of a process for silver-metal oxide electrical contacts. Dr. Joshi is a Life member of various professional organizations such as Indian Institute of Metals, Powder Metallurgy Association of India, Indian Society of Non-destructive Testing, Metallography Society, India, Alumni Association of IIT Mumbai, etc.

**Dr. Rajendra Kumar** is a renowned metallurgist and a former Director of National Metallurgical Laboratory, Jamshedpur as well as ex-Director of Regional Research Laboratory, Bhopal. Dr. Rajendra Kumar has more than 150 publications in national and international journals of repute. He has been a committee member of IBR for failure investigation and has authored three books on metallurgy. He is a doctorate from the University of Sheffield, England.

### About TCR

Established in 1973, TCR serves 2500+ customers globally with a strong presence in India and Middle East including Saudi Arabia, Kuwait and UAE. TCR enables leading organizations across industries to develop and execute solutions for efficiently managing plant operations.

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