

Sponsorship

The event can be sponsored by donating Rs.25,000/-. The sponsorship entitles mention on the banners, free registration for two delegates and table space for exhibiting equipment / products.

Souvenir

A souvenir will be brought out on this occasion. It will contain the abstracts of the papers and advertisements. The tariff for advertisements in the souvenir is as below:

| | |
|--------------------|------------|
| Back Cover | Rs.10000/- |
| Inside Cover Pages | Rs.7500/- |
| Full Page | Rs.5000/- |
| Half Page | Rs.3000/- |

Registration Charges

| Category | Fees (Rs.) |
|---------------------|--------------------|
| General | 3500 including GST |
| Faculty | 2500 including GST |
| Student participant | 250 with GST |

There is no registration charges for invited speakers

Participation

Persons desirous of participating in the workshop are requested to fill in the accompanying form and send the same to the Convener.

Address for Correspondence :

Prof. R.C. Prasad

Convener & Vice Chairman SFA Mumbai Chapter
Department of Mechanical Engineering,
Pillai HOC College of Engineering & Technology, Rasayani
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Mobile:9869236812
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Patrons

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Mr. T.S. Kathayat, COO Welspun Corp. Ltd.

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Dr.R.C.Prasad, Faculty Advisor & Mentor
Student Chapters of ASME & AMPP

Dr. Ajit Bhandarkar, DGM HAL Nashik, Secretary SFA-MC

Mr. Parikshit Gupta, MD OHT, Treasurer SFA-MC

BTF 2024

ONE DAY NATIONAL WORKSHOP

On

ROOT CAUSE FAILURE ANALYSIS OF BOILER TUBES



September 24, 2024

**Organized by
Student Chapters of
ASME & AMPP**

**Supported by
SFA Mumbai Chapter**



**Pillai HOC College of
Engineering & Technology,
Rasayani**

Invitation

The Student Chapters of AMPP & ASME at the PHCET Rasayani in association with the Society for Failure Analysis Mumbai Chapter cordially invite you to attend the One Day National Workshop on “**Root Cause Failure Analysis of Boilers tubes**” at the **Conclave, 2nd Floor of the Pillai HOC College of Engineering & Technology, Rasayani on September 24, 2024**.

About the Workshop

Boilers are used to heat water, convert it into steam and run the turbine to produce electricity. Steam generating boilers are the heart of thermal power plants. Tubes are integrated into the combustion chamber and the water is converted into steam directly. Power Plants consist of large heat exchangers that are prone to leakages of working fluids that severely affects the overall performance of the plant. Tube leakages and failures are the leading cause of availability loss in conventional fossil power plants. The boiler tubes are subjected to a wide variety of failures involving one or more mechanisms. The most prominent among these are fireside corrosion, water side corrosion including hydrogen damage and fracture including Stress Corrosion Cracking, Hydrogen embrittlement, Thermal/Mechanical/Corrosion Fatigue & Creep. If tube leakages go undetected for long time then it may result in physical damages to heat exchangers. This leads to enormous damage due to plant shut down and repairs. Failures of boiler tubes result due to water chemistry, bad operation and poor maintenance. There are other factors not under the direct control of the management like Design, Materials selection, Fabrication damages. Repeat boiler tube failures in same materials or the same boiler are due to absence of root cause of analysis. Organizations have management supported BTF Reduction Program but only some of them address BTF to root cause level

In the light of above, this one day workshop is being organized to share experiences and exchange information on BTF and evolve possible future research and development that can be pursued in this area to reduce failures to obtain world class boiler availability status. The focus will be on areas that need further research like fracture mechanics based studies of environmental assisted cracking that includes corrosion fatigue and Hydrogen Embrittlement, life assessment and extension. The tentative topics planned to be covered are:

- Metallurgy & Materials of Boiler Tubes
- Identification of Modes and Mechanisms
- NDE & Failure Assessment Diagram
- Root cause analysis methodology to reduce BTF
- Residual Life and Predictive Maintenance
- Regulation & Codal requirements / Latest Technology Trends for Boiler Life Extension applicable to BTF World over.

FACULTY

Includes experts from industries, Teaching & Research Organizations . Some of the prominent speakers who have agreed to deliver invited lectures related to the theme of the workshop are:

Dr.V.S.RAJA, Emeritus Professor IIT Bombay

Mr.PARESH HARIBHAKTI, MD TCR Vadodara

Mr. PRAMOD KATE. Consultant Nagpur

Dr.S ROYCHOWDHURY, Head Corrosion Section
BARC-Mumbai

Mr.N KUMAR, Heavy Water Board, Mumbai

Dr.R.N.SINGH, BARC Mumbai

NAGAMANICKAM P, Retd..ED SBG, Expert in
RLA & FA

REGISTRATION FORM

One Day National Workshop on

BTF 2024

**ROOT CAUSE FAILURE ANALYSIS
OF BOILER TUBES**
September 24, 2024

NAME (PRINT):

DESIGNATION :

ORGANISATION :

MAILING ADDRESS :

EMAIL: _____

**Bank Details for Payment towards
sponsorship / participation:**

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Development Account Consultancy &
Research Projects**

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Branch: KHAIRE PATALGANGA

A/C No.: 52142200111189

IFSC/RTGS/NEFT Code : CNRB0015214

**For any other information contact Convener
Dr. R. C. Prasad, Former HAG Professor
IIT Bombay, Professor Department of Mech.
Engineering,**

**Pillai HOC College of Engineering &
Technology Rasayani (sfa.mes.ac.in)**