



WORKSHOP



Advanced Non-Destructive Method to Assess Residual Stress in Weldments & other Engineering Components (NDM-A-RS 2014)



17 - 18 July 2014

Organized by

Department of Mechanical Engineering
Sambhram Institute of Technology
Bangalore

Indian Welding Society
Bangalore Centre
Bangalore

ABOUT SAMBHRAM INSTITUTE OF TECHNOLOGY

The Sambhram Institute of Technology (SaiT) was established in 2001 under the Sambhram group of institutions by a team of experts who are a perfect blend of industry and academia, is situated in a sprawling eight acres estate set in an idyllic atmosphere rich in greenery. The institute currently offers five U G and two P G programs in

Engineering, with five departments recognized as research centers. The faculty and staff are well qualified and experienced. Some of them hold the Doctorate Degree and many are pursuing Ph.D. SaiT is affiliated to V T U and it is accredited by N B A.

ABOUT MECHANICAL ENGINEERING DEPARTMENT

The department of Mechanical Engineering started in 2002 with an intake of 60, has increased to 180 at present. A research & development centre was started in the department in 2008. The department has conducted a large number of seminars & workshops on different topics to provide a wide exposure to students in various domains of engineering & technology. A good number of

faculties are pursuing Ph.D. The department has developed good interaction and rapport with industries. It is developing towards recognizable Academia – Industry interactive platform. Some of the reputed Industries in & around Bangalore have come & assessed the students for placements. A few of them have been recruited.

ABOUT THE WORKSHOP

The residual stress exists in almost all engineering components as they are subjected to various engineering processes such as welding, machining, forming, forging, heat treatment etc. Both mechanical and thermal stresses get induced during manufacturing. Hence, the nature and magnitude of residual stress at certain specific locations become very important from the point of structural integrity of the component.

The destructive and non-destructive methods are employed for measurement and analysis of residual stress. Among the non-destructive technique, X-Ray and magnetic based measurements are popular and widely adopted. The concept of residual stress induced in any component and its distribution and implication are less understood and therefore this workshop aims to cover with specific objectives in view.

OBJECTIVES

- Advanced measurement techniques – An overview on cause & effect
- Importance of stress mapping in weldments and other components
- Control of residual stress during fabrication and remedial measures adopted
- Typical case studies from the point of failure analysis and bench marking

CALL FOR EXTENDED ABSTRACTS

The research academicians, Industrialists, and other engineering professions are invited to present technical papers during the workshop. The last date for the submission of the abstract is 30th June/2014.

Who can ATTEAND

The scientists from R&D establishments, Practicing engineers from Industries and faculties from Academic Institutes are most welcome to attend the work shop. It may be noted that the leading experts from IITs, IISc, NITs, IGCAR, VSSC, CPRI, CMTI, GTRE, BHEL, HAL, Wheels India Ltd., Vishnu Forge Ltd., ProSIM (R & D) Ltd., etc., are delivering the key lectures during the workshop.

REGISTRATION FEE AND OTHER DETAILS

The registration fee details are given below:

Sl.No	Delegates forum	Amount in RS /delegate
1.	Industries/organization etc	2000/-
2.	Faculties of engineering college ,IIT,NIT,	500/-
3.	Students	250/-

The participants are requested to make their own arrangements for their travel and stay during the workshop as Bangalore is well connected by Air, Rail, & Road.

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