

TOPICS TO BE COVERED

- Introduction to engineering failure analysis
- Engineers' perspective on failures
- Inspection and Quality control
- Failure analysis and manufacturing
- Metallography of failures
- Corrosion in engineering failures
- Failure analysis of castings

WHO SHOULD ATTEND?

Faculty Members and Research Scholars of Engineering Colleges, scientists & engineers from R&D organisations and industries are encouraged to attend this programme.

REGISTRATION FEE

SFA members : Rs. 1000/-
Non-members : Rs. 2000/-
Student members : Rs. 300
Student non-members : Rs. 500/-

Payable by DD drawn in favour of SFA, Hyderabad. The number of participants is limited to 100 on a first come first served basis. On the spot cash payment is also entertained. Intimation of selection and confirmation of participation would be through E-mail only. All the non-members who register are made members of SFA. Undergraduate students are encouraged to join as annual members and convert to life membership on obtaining degree.

No TA / DA will be provided

ORGANISERS

ADVISORY COMMITTEE

Prof.S.Sundararajan, Director, NIT Trichy
Dr. T.Jayakumar, President , SFA and
Director, Metallurgy & Materials Group, IGCAR, Kalpakkam
Sri. R.Eswaran, GM, WRI & Lab., BHEL, Trichy
Prof.K.S.Pandey, Rtd. MME, NIT Trichy
Sri.P.Jayapal, Vice President, SFA and
Group Director, CEMILAC, Bangalore
Dr.N.Eswara Prasad, Honorary Secretary, SFA and
Regional Director, CEMILAC, RCMA(materials), Hyderabad
Dr.M.Vijayalakshmi, Associate Director, Physical Metallurgy
Gr., Metallurgy & Materials Group, IGCAR
Dr.B P C.Rao, Head, NDED, MMG, IGCAR
Sri.E.Mohandas, Head, Materials Synthesis &
Characterisation Division, Physical Metallurgy Gr.,
Metallurgy & Materials Gr, IGCAR
Prof. S. Natarajan, MME& Chairman, CECASE, NITT

ORGANISING COMMITTEE

Dr.R.Vaideeswaran, Consultant & Rtd SM, BHEL Tiruchy
& Founder member SFA, Tiruchirappalli
Prof.S.Raman Sankaranarayanan, HOD, MME, NIT Tiruchy
Dr.S.Maruthamuthu, Sr.Principal Scientist, CECRI, KKDI.
Dr.K.Santhy, Associate Prof., CARE Institutions, Tiruchi
Dr.P.Parameswaran, Scientist G, IGCAR , Kalpakkam
Sri. K.E.Rajgopalachari , Rtd SM, BHEL, TIRUCHY

CONTACT THE LOCAL COORDINATOR:

Dr. S.Muthukumaran & Dr.S.P. Kumaresh Babu
Associate Professors, Dept. of Metallurgical & Matls Engg.
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One day workshop on Prediction, Prevention and Post Analysis of Engineering Failures

October, 17, 2014

Organised by

**National Institute of Technology
Tiruchirappalli**

&

**Society for Failure Analysis
Hyderabad**

Venue : A2 Hall, NIT Tiruchy

Time : 09.00Hrs to 17.00Hrs

ABOUT NIT, TRICHY: The Regional Engineering College at Tiruchirappalli was founded in 1964 as a co-operative venture between the Government of India and the Government of Tamil Nadu to cater to the country's need for manpower in technology. The college was given autonomy in financial and administrative matters to achieve rapid development. In 2003, the institution was granted Deemed University status with the approval of the UGC/AICTE and was renamed National Institute of Technology. The Chairman of the institute is Rajaram Nityananda. Dr.Srinivasan Sundarrajan has been Director of the institute since July 2011. The institute is undergoing accelerated growth through the World Bank-funded Technical Education Quality Improvement Program (TEQIP). NIT Trichy celebrated its Golden Jubilee anniversary on July 19/20, 2014, with the President of India Shri Pranab Mukherjee presiding over the event as the chief guest.

ABOUT SOCIETY FOR FAILURE ANALYSIS (SFA)

Founded in 2006 with the following aim and objectives:

To serve as National Society to promote, encourage and develop the growth of “Art and Science of Failure Analysis” and to stimulate interest in compilation of a database, for effective identification of root causes of failures and their prevention thereof.

To serve as a common forum for individuals, institutions, organizations and industries interested in the above.

To disseminate information concerning developments both in India and abroad in the related fields.

To organize lectures, discussions, conferences, seminars, colloquia, courses related to failure analysis and to provide a valuable feedback on failure analysis covering design, materials, manufacturing deficiencies/ limitations and maintenance. Currently SFA centres are established in many parts of India. The Tiruchirappalli Centre of Society for Failure Analysis (SFA) is planned to be inaugurated on 17th October 2014 along with the inauguration of the one day workshop. All the participants are made members as a part of registration to this workshop.

ABOUT THE WORKSHOP

Carrying out a systematic engineering failure analysis is a useful feedback to the engineers and scientists since it provides useful information as to why a component or structure failed, and this is appropriately taken consideration in the subsequent designs. Due to the complexity of an engineering system, failure can manifest itself in a number of ways. It may be caused by design aspects or manufacturing or service factors or a combination of all the three. The workshop proposes to discuss these aspects of failure to give an insight into how a component was loaded and what form of loading or stress state led to failure and the degradation effects of service environments, prevention methods with case studies.

In addition, considering the losses that may occur due to unexpected failures, on-line monitoring assumes importance to any industry. Thanks to a number of advanced NDT, leak detection, insitu Metallography methods that are currently available to monitor the system and provide an early detection of impending failure.

Resource persons of the workshop are drawn from NITT, BHEL, IGCAR, CECRI institutions who would share their expertise and knowledge with the participants.

**One day workshop on
Prediction, Prevention
and Post Analysis of
Engineering Failures**

October 17, 2014

Name:.....

Designation:.....

Department:.....

**Mailing
address:**.....

Mobile:.....

Fax :.....

E-mail:.....

**Reasons (max. 3) for interest in the
participation in the workshop:**

1.

2.

3.

Date: __/__/____ **Signature:**.....

Last date for registration: 15th Oct 2014