

To,
The Programme Manager,
TCR Institute of Materials Technology
Plot No EL-182, MIDC-TTC,
Electronic Zone,
Behind Nalco, Wnape
Navi Mumbai- 400 705
Ph: 27612324, 27631508

Program Schedule :

- 09:00 to 09:30 *Registration*
- 09:30 to 10:00 *Invocation*
- 10:00 to 10:30 *Tea break*
- 10:30 to 11:45 *Metallography- An Overview - By Dr. Rajendra Kumar
Former Director NML, Jamshedpur.RRL Bhopal*
- 11:45 to 13:00 *Basics of metallurgy for metallography and
microstructural Examination- By Dr. P. B. Joshi
Professor in Department of metallurgical Engineering,
The M. S. University, Vadodara*
- 13:00 to 14:00 *Lunch Break*
- 14:00 to 15:00 *Sample preparation and analysis techniques for
metallography -By Mr. P. U. Haribhakti, Managing
Director, TCR Advanced Engineering P. Ltd, Vadodara*
- 15:00 to 16:00 *Scanning Electron Microscopy- A Diagnostic tool in
evaluation of metal structures-By Dr. M. N.Patel,
Reader In Department of metallurgical Engineering,
The M. S. University, Vadodara*
- 16:00 to 16:30 *High tea*
- 16:30 to 17:30 *Role of Metallography in failure Analysis of metallic
components-By Dr. B. K. Shah, Head NDT, BARC,
Mumbai*
- 17:30 to 18:00 *Vote of Thanks and Certificate Distribution*

Organized Jointly By:

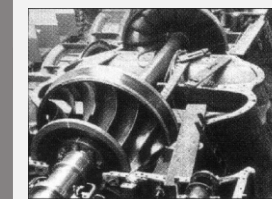


Metallography Society,
Vadodara

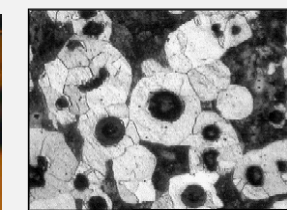
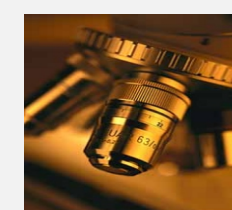
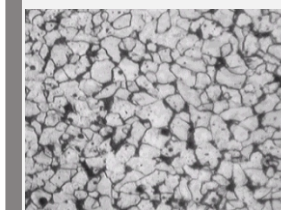


TCR Institute for Materials
Technology

One Day Workshop on
"Metallography For Engineers"
16th June 2007



INSIDE THE METAL



Venue :
HOTEL ATITHI
77 A&B, Nehru Road
Vile Parle (E), Mumbai - 400 099

About the Metallography Society

It is well known to Engineers, Technologists & Material Scientists that a strong correlation exists between the structure of any material and its properties. This particular fact is exploited to synthesize materials with desired microstructure & in turn targeted intended properties. Role of microstructural analysis is thus, very important in selection, processing & application of materials. In view of the paramount importance of microstructure of Metals & Alloys, in their making, shaping & treating, an institution called "Metallography Society" has been formed. The main objectives of this society are to provide theoretical as well as practical input to academicians & to the industries in the field of Metallography. At present this institution operates from city of Vadodara as its Head Office, & will expand its activities in other parts of India in due course.

About the TCR Institute of Materials Technology

TCR Institute for Materials Technology in Navi Mumbai (India) is committed to train with knowledge gained over the past 33 years in the material science industry. Our curriculum is formalized to provide custom training programs, best practices and leading knowledge in material testing. The training facility is equipped with latest technologies. You will find an opportunity to improve the skills of your metallurgist, engineers and technicians.

FOCUS

1. Basics of Metallurgy and Microstructures.
2. Understanding of Phase Diagrams and Development of Structures.
3. Sample Preparation Techniques.
4. Basics of Microscopy and Analysis of Structures.
5. Advancement in Metallography.
7. Role of Metallography in Failure Investigation in metallic components.

About the workshop

Characterization of engineering metals & alloys has been globally recognized, as an important step in quality assurance programmes & in improving the productivity of industrial units involved in metal casting & fabrication processes, heat treatment and welding operations, etc. The role of metallography in obtaining controlled microstructure for improving the service life of components is being increasingly appreciated.

Metallography as quality control measure is the latest entrant amongst the many standard techniques used for characterizing metal & alloys.

Knowledge of Metallography is, therefore, of interest to all engineers who either manufacture the components or use them in diverse technological fields.

Metallographic techniques are also being extensively used for providing reassurance of the state of health of components in service and in assessment of their remaining useful life and in programmes involving plant renovation & modernization.

A variety of Petrochemical, Engineering and Metallurgical industries, including their ancillaries are present in India. This programme is specially directed at their personnel involved in metallurgical activities & aims to provide them basic understanding of Metallography and its techniques, metallurgical structure development & microscopic techniques, knowledge of basic metallographic features of cast and wrought structures, grain size and inclusion rating, microstructures of

Who Should Attend This Workshop

This workshop is aimed to provide an insight of metallurgical aspect in various fields. It can be useful to Inspection Engineers, Quality Control personnels, Fabricators, Heat treaters, Plating / Coating providers, Foundry/ Forging/ Forming, Chemical & Petrochemical Industries

Delegate Registration Form

One Day Workshop on "Metallography For Engineers"

Date : 16th June 2007

Venue :

Hotel Atithi

77 A & B, Nehru Road, Near Domestic Airport,
Vile Parle (E), Mumbai - 400 099

Participation Charges : (Includes Course Material)

Members : Rs. 1500/- per delegates

Non-Members : Rs. 2000/- per delegates

(Organization nominating 3 or more delegates shall be offered 10% discount in participation charges.)

Payment : To be made by DD or Cheque payable at Vadodara (Outstation Cheque : Add Rs. 60/-) in favor of "Metallography Society" along with duly filled in registration form to the programme coordinator at following address.

Name : _____

Designation : _____

Organization : _____

Address : _____

Telephone : _____ Fax : _____

E-mail : _____

ORGANIZERS

Dr. Rajendra Kumar - President Metallography Society, Vadodara	Mr. V. K. Bafna - Managing Director TCR Engineering Services P Ltd. Mumbai
P. U. Haribhakti - Hon. Secretary Metallography Society, Vadodara	Mr. Rohit Bafna - Director Global Sales TCR World, 14625 Baltimore Ave MD 20707 USA

Programme Manager

Mr. Ketan Parekh

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