

# Indian Institute of Metals Chennai Chapter

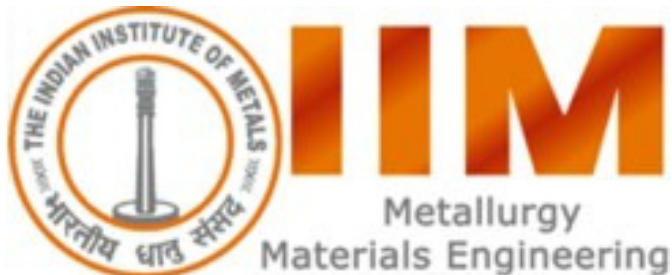
C/O Dept. of Metallurgical and Materials Engg.

Indian Institute of Technology Madras

Chennai 600036, India

## Activities

May – August, 2011



# Office Bearers 2011-2012

Sl. No.	Name & Address	Phone	Email
1	<b>Chairman</b> Dr. M. Kamaraj Professor, Dept. of Metallurgical & Materials Engineering, IIT Madras, Chennai 600036	044-22574769	kamaraj@iitm.ac.in
2	<b>Vice Chairman (Academic)</b> Dr. Uday Chakkingal Professor, Dept. of Metallurgical & Materials Engineering, IIT Madras, Chennai 600036	044-22574775	udaychak@iitm.ac.in
3	<b>Vice Chairman (Industry)</b> Mr. K. Suryaprakash General Manager (Technical), Brakes India Ltd., Foundry Division, Chennai	04712-262386	suryaprakash.k@brakesindia.co.in
4	<b>Hon. Secretary</b> Dr. Srinivasa Rao Bakshi Assistant Professor, Dept. of Metallurgical & Materials Engineering, IIT Madras, Chennai 600036	044-22574781	sbakshi@iitm.ac.in
5	<b>Hon. Joint Secretary</b> Dr. T. Sundara Rajan Divisional Manager, Product Development, Wheels India Ltd. Padi, Chennai 600 050	26234470	Sundararajan_t@wheelsindia.com
6	<b>Hon. Treasurer</b> Dr. Ranjit Bauri Assistant Professor, Dept. of Metallurgical & Materials Engineering, IIT , Chennai 600036	22574778	rbauri@iitm.ac.in

# TWO-DAY COURSE ON HEAT TREATMENT OF INDUSTRIAL COMPONENTS

## July 29 – 30, 2011



### Coordinators

- Prof. M. Kamaraj
- Dr. Srinivasa Rao Bakshi

### Registration fees

- IIM Members: Rs. 5000
- IIM Non-members: Rs. 5500
- Students: Rs. 2000

- Workshop was aimed to provide theoretical and well as practical knowledge
- Speakers were drawn from Industry and academia
- Unexpectedly large participation of 120 people from industry and academia
- Lectures were held in IC & SR Auditorium

- Dr. Srinivasa Rao Bakshi, IIT Madras on Fundamental concepts in steel heat treatment
- Mr. S. M. Sharif, ARCI on Laser Surface hardening of steels
- Dr. K. Venkateswaran, Advanced Heat Treatment Services on Carburising: Process and case studies
- Mr. V. Raghunathan, Fluidtherm Technology on Nitriding and Carbo-nitriding
- Mr. N. Isravel Prabakar, Intech Industries on Plasma-nitriding: process and applications
- Mr. Umesh V. Bhat, Bhat Metals Research Pvt. Ltd. on Vacuum heat treatment
- Mr. R. D Mehta, Inductotherm India Pvt. Ltd, Induction hardening of steels
- Mr. S. Ravishankar, Ashokleyland on Chromizing, Tufftriding and Boriding and Heat treatment distortion
- Prof. T. S. Prasanna kumar, IIT Madras on Quench Probe - A new quality assurance tool for quench heat treatment
- Prof. Kesavan Nair, IIT Madras on Measurement of Retained Austenite and Residual stress in heat treated components
- Mr. Shanmugam, WABCO-TVS on Heat treatment of Heat treatment of Non-ferrous alloys
- Prof. S. S Mohamed Nazirudeen, PSG Tech, Coimbatore on Heat treatment of Castings
- Mr. R. Ravi, Ador Welding Ltd. on Heat treatment of welded joints
- Prof. M. Kamaraj, IIT Madras on Mechanical testing techniques
- Dr.Raghavendra Bhat, HAL Bangalore on Heat treatment related failures and relevance of special process approval

## MATERIALS QUIZ PROGRAMME

August 20, 2011



- Quiz questions prepared by B.Tech students (MetSA)
- 81 students from 22 schools in Chennai participated
- *Sri Sankara Senior Secondary School (1<sup>st</sup>) and Padma Seshadri Bala Bhavan Senior Secondary School (2<sup>nd</sup>)* were winners
- Both teams represented IIM Chennai Chapter in Brahm Prakash Memorial Quiz, 17<sup>th</sup> Sept. at Kalpakkam

# TWO-DAY COURSE ON PROCESSING AND APPLICATIONS OF COMPOSITE MATERIALS

## August 26-27, 2011



### Coordinators

- Prof. R. Velmurugan
- Prof. M. Balasubramanian
- Prof. M. Kamaraj



### Registration fees

- IIM Members: Rs. 5000
- IIM Non-members: Rs. 5500
- Students: Rs. 2000

- More than 55 participants from industries, defence & aero-space research organizations and academia
- Demonstration session and visit to the Composites Technology Centre.

- Prof.R.Velmurugan, IIT Madras on Introduction to Composite Materials
- Dr. A.Selvam, FRP Institute, Chennai on Reinforcement fibres
- Prof. Abhijit Deshpande, IIT Madras on Polymer matrix materials
- Mr.U. S. Manivannan, Technocraft, Chennai on Hand lay-up
- Prof. M. Balasubramanian, IIT Madras on Manufacturing of polymer composites
- Dr. N. G. Nair, NGN Composites, Chennai on Design considerations
- Prof. R.Velmurugan, IIT Madras on Properties and characteristics of FRP
- Prof. M.Balasubramanian, IIT Madras on Applications of FRP
- Dr. Srinivas Rao Bakshi, IIT Madras on Processing and applications of MMC
- Dr. F. D. Gnanam, Ceramic Consultant, Chennai on Processing and applications of CMC

# NATIONAL SEMINAR ON TRIBOLOGY OF MATERIALS (NSTM-2011) August 26, 2011

## Coordinators

- Prof. N. Siva Prasad, Chairman
  - Prof. A. S. Sekhar, Secretary
  - M. Kamaraj, Secretary
- 
- Tribute to Prof. K, Gopinath who retired in June 30<sup>th</sup>, 2011
  - Invited presentations

NATIONAL SEMINAR ON  
TRIBOLOGY AND  
MATERIALS



*Recent Advances in  
Tribology and Materials*

**NSTM-2011**



Organized by



The Indian Institute of Metals  
Chennai Chapter

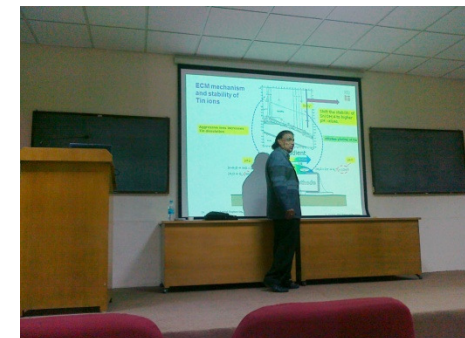


IIT Madras  
Chennai



## IIM SEMINAR TALKS

Sl. No.	Date	Name and Affiliation	Title of the Talk
1	June 22, 2011	Dr. Sankara Sarma V Tatiparti, Research Scientist, India Science lab, General Motors Tech. Center, Bangalore	Mg-based nanomaterials for on-board vehicular hydrogen storage applications and novel fabrication methods for alternative energy storage systems
2	July 4, 2011	Dr. Kumar Sadayappan, Senior Research Scientist, CANMET, Materials Technology Laboratory, Hamilton, ON, Canada	<i>ASM-IIM Seminar Talk</i> Development of materials for energy efficient transportation
3	July 6, 2011	Dr. Rajan Ambat, Associate Professor, Materials and Surface Engineering, Dept. of Mechanical Engineering, Technical University of Denmark, DK 2800 Kgs. Lyngby, Denmark	Climatic reliability of microelectronics



Sl. No.	Date	Name and Affiliation	Title of the Talk
4	August 1, 2011	Prof. Ganpati Ramanath, Rensselaer Polytechnic Institute, Materials Science and Engineering Department, Troy, NY 12180, USA	Molecularly tailored nanobulk energy materials and heterointerfaces for applications
5	August 2, 2011	Dr. Karthik Nagarathnam, Senior Materials Scientist UTRON Kinetics LLC Manassas, Virginia, USA	Materials Education in USA and Higher-Performance Powder Metallurgical Tribological Components



## **For further information, please contact:**

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