REGISTRATION FORM

DST- SERB Sponsored
Two Days National Workshop on
Brake Friction Materials:
Past, Present and Future

5th - 6th November 2015

Name :
Designation :
Department :
Institution :
Email ID :
Mobile No. :
Address for Communication :

Signature of Applicant

SPONSORSHIP CERTIFICATE

Mr/Ms/Dr .................................................... is an employee of our institution and sponsored to attend the workshop, if selected.

Place :
Date :

Signature and Seal of Sponsoring Authority

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Date to Remember
Deadline for registration: 29th October 2015.
Mail should be sent to bfmppf@gmail.com before registration.

Registration fee*

- Students and Full Time Research Scholars - INR 1200
- Part Time Research Scholars and Faculty - INR 2400
- Industrial Delegate - INR 3600

Exhibit Sponsorship*

INR 8400 (Includes 2 persons pass for attending workshop, Exhibit place)
(*includes 20% institute overheads)
Registration fee must be paid in the form of DD in favor of "The Director, NIT Trichy" payable at NIT Trichy.
Kind note: Once fees paid will not be refunded at any circumstances.

Accommodation

Accommodation will be provided on paid twin sharing basis in guest house, hostels based on availability.

Address for Correspondence

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**About NIT Trichy**

The National Institute of Technology (Formerly known as Regional Engineering College) Tiruchirappalli, situated in the heart of Tamil Nadu, was started as a joint and co-operative venture of the Government of India and the Government of Tamil Nadu in 1964 with a view to catering the needs of man-power in technology for the country. The institute aims to provide valuable resources for industry and society through excellence in technical education and research.

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**About the Department**

The Department of Production Engineering established in the year 1983, strives towards excellence in the field of manufacturing and industrial engineering. The vision of the department is to become a centre of excellence for learning, research and model manufacturing. The department offers B.Tech. (Production Engineering), M.Tech. (Manufacturing Technology, Industrial Engineering and Management), M.S. (Research) and Ph.D. programmes. Government of India has recognized this department as a centre for Quality Improvement Programme in PG and Ph.D.

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**Scope of Workshop**

India is the world’s sixth rank in automotive production. The conventional brake system is equipped and becomes essential in all the vehicles. Brake friction materials are currently employed in automobiles, rail wagons, aircrafts, earth moving equipment’s, press lifts and wind mills etc. The three broad classifications of friction materials are organic, sintered and carbon-carbon friction materials. The later one is mainly employed in aircrafts were kinetic energy is high. The demand for such kind of friction materials is limited for racing cars and advanced aircrafts. The selection of brake friction materials is purely based on the kinetic energy of the moving vehicle, speed and scenario in which it is operated. Usage of asbestos is completely banned due to its carcinogenic nature. Now the present era begins with non-asbestos friction materials comprising low metallic and non-metallic constituents. The advanced countries are focusing copper free friction materials in this NAO due to its harmful nature to aquatic life. Its percentage is going to be limited to maximum of 0.5 weight% in 2020 in the developed nations. So the friction material researchers are in the way in finding out various substitutes for copper. This workshop will provide a platform to discuss these various kinds of friction materials, manufacturing processes, performance behaviour and interaction with academic researchers and industrial experts.

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**Topics to be covered**

1. Manufacturing of brake friction materials – an overview
2. Prohibition of asbestos usage in brake friction materials
3. Present advancements in brake friction materials across the country and world.
5. OEM Brake Technology.
6. Industrial case studies
7. Opportunities in brake friction materials field.

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**Key Note Speakers**

1. Dr. (Smt.) Jayashree Bijwe, Professor, ITMMEC, IIT Delhi.
2. Shri. T.N.Venkataramani, Vice President R&D, Hindustan Compo. Ltd., Aurangabad.
3. Dr. Vijay Subramanian, Indian Representative, Alroko GmbH & Co KG, Kochi.
4. Dr. Srikanth Vedantam, Professor, Department of Engineering Design, IIT Madras.
5. Shri. Samit Singhai, Director, Kasturi Metal Composite Private Ltd., Amravati.
6. Dr. D. Lenin Singaravelu, Assistant Professor, Department of Production Engineering, NIT, Tiruchirappalli.