

ABOUT THE WORKSHOP

The friction material formulation is considered as an art, only mastered by the experienced people. Even though, we could get the finger print of all the ingredients, how they work in combination with different properties, in different proportion is still an unresolved phenomenon. This is true especially for those who want to pursue research in the area of friction materials. Formulations and method of arriving formulation cannot be revealed by the O.E.s and aftermarket people due to proprietary reasons. This workshop aims in breaking this orthodox principle. The sharing of research experience and insight in this frontier area by renowned formulators across the country will benefit the beginners in industry and academic researchers. Moreover, the various testing procedures for beginners and the environmental issues related to friction material will also be addressed.

PARTICIPANTS

- Faculty members from various Institutions
- Researchers Pursuing in the area of Friction Materials
- R & D Personnel from Friction Industries
- Selection will be on first come first serve basis.

REGISTRATION

The registration fee of Rs. 500 for the delegates from academic institutions and Rs. 2000 for the delegates from industries can be paid via online payment (NEFT Transfer). The bank details are,

A/C No : 165701000019388
IFSC Code : IOBA0001657
Beneficiary Name : Dept. of Mechanical Engineering

Alternative mode of payment

The registration fee can be paid through demand draft drawn in favour of "Department of Mechanical Engineering" payable at Chennai

PATRON

Prof. Tan Sri Dato' Sri Ir. Dr. Sahol Hamid bin Abu Bakar,
Vice Chancellor
B.S. Abdur Rahman Crescent Institute of Science & Technology

CO-PATRON

Dr. M.S. Haji Sheik Mohammed,
Registrar i/c
B.S. Abdur Rahman Crescent Institute of Science & Technology

CONVENER

Dr. S. Rasool Mohideen,
Dean (SME)

CO-ORDINATORS

Dr. M.A. Sai Balaji, Asso. Professor
Dr. A.S. Selvakumar, Professor

SPEAKERS



Dr. Vijay Subramanian
Indian Representative, Alroko GmbH & Co. KG, Germany
Raw Materials for Friction Formulations



Mr. Habib Rahamatullah
Indian Friction Material Engineering Company, New Delhi
Brake Friction Material - Basic Principles behind Formulation



Mr. P.M. Venkatasamy
Pyramid Precision Engineering India (P) Ltd.,
Friction Material Testing - F.A.S.T. Machine to Inertia
Dynamometer (Testing in the company premises)



Dr. K.L. Sundar Krishnaa
Global Technical Adviser
Environmental Impact of Friction Material - Need for
Legislation in India



Mr. E. Devarajan
Valeo India Private Ltd.,
Principles behind Clutch Design



Dr. Mukesh Kumar
Thapar Institute of Engineering & Technology
Copper-free Non-ambetos Organic (NAO) Friction Materials for
Automotive

Note:

All the interested participants will be taken to M/s. Pyramid Precision Engineering India (P) Ltd, to gain some hands on experience on brake pad testing with Inertia brake dynamometer, KRAUSS Testing machine, Compressibility tester and shear testing machine. Composites developed by the academicians as part of their research work can also be tested at reasonable price.

One Day National Level Workshop

on

**FRICION MATERIAL CONCEPTS -
Formulation, Testing & Environmental Issues**

10th April 2018



Organized by

Department of Mechanical Engineering

B.S. Abdur Rahman

Crescent
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956
GST Road, Vandalur, Chennai 600 046

REPORT ON

ONE DAY NATIONAL WORKSHOP “FRICTION MATERIAL CONCEPTS: FORMULATION, TESTING & ENVIRONMENTAL ISSUES”

11/04/2018

The one day national level workshop on “**Friction Material Concepts: Formulation, Testing & Environmental Issues**” were conducted by the Department of Mechanical Engineering on 10th April 2018.



Highlights of the workshop:

- All the speakers are from the friction Industries.
- Total no. of participants registered :78



- No. of Industrial Participants: **55**

M/s.Rane Brake lining Ltd., Chennai (Manager level category)
M/s. Brakes India Ltd., Chennai (Manager level category)
M/s. Sundarm Brake Lining Ltd., Chennai (manager level)
M/s. Valeo Friction Products Ltd., Chennai (R&D Engineers)
M/s.Valeo India Ltd., Chennai (Manager Level)
M/s. Mando Brakes India Ltd., Chennai (Mixed category)
M/s. Renault Nissan Ltd., Chennai (Engineers R&D)
M/s. Neu Tech Industries ., Chennai (Managing Partners)
M/s.Carlisle Brake & Friction, Chennai (Engineers R&D)
M/s. Meritor Ltd., Bangalore Design Centre (Engineers R&D)
M/s. Meritor Ltd., Mysore Plant (Head – Operations)
M/s. General Auto Spares Company, Hydrebad (Managing Partner)
M/s. Standard Friction Components Ltd., Mumbai (M.D & G.M)

M/s.Benara Udyog ltd., Agra (Head- R& D)
M/s. Hindustan Composites Ltd., Bandara plant (Engineers R & D)
M/s. Hindustan Composites Ltd., Paithan plant (Manager –Operations)
M/s. ASK Automotive components ltd., NewDelhi (Marketing Manager)
M/s. Masu Brakes Ltd., New Delhi (Marketing Manager)
M/s. IBC Ltd., Chennai (Marketing Manager)
M/s. Kumarasami PolyChem, Panruti (Marketing Manager)
PRTC Corporation Ltd., Puducherry (Maintenance Incharge)
M/s. Sathya Cashew Chemicals Ltd., Chennai (Director)
M/s. Sarada Metal Powder Company, Jaipur (Managing Partner)

- No. of Academicians & Researchers : **22**
- The **revenue** generated for the department is around **1.6 lakhs**.
- After the lecture session at our Institute, the participants were taken to the Brake pad/lining Testing center, **Pyramid Precision Engineering Ltd.**, Chennai to give them hands on experience in testing the pads as per O.E standards.
- The feedback was encouraging and the participants informed to conduct more events in the coming year.
- An international workshop is planned to conduct during the February 2019 with a number of International participants.
- More Engineers are satisfied with our institute and want to join for PG courses in our institute
- After presenting the **ongoing research** work on friction material in our department we are expecting few consultancy work from the industrial people (based on the discussion on 10.04.2018).

Team Members: **1)Mr. K Sathickbasha**
 2)Mr.B.Surya Rajan
 3) Mr.Md.Javeed Ahmed

Dr.M.A.Sai Balaji & Dr.A.S.Selvakumar
Coordinators :FMC-FTE