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.Es 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 beaddressed.

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 Conscent 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 CO-ORDINATORS Dr. M.A. Sai Balaji, Asso. Professo Dr. S. Rasool Mohideen. Dr. A.S. Selvakumar, Professor Des.p (6006) SPEAKERS Dr. Vijay Subramanian Indian Representative, Alroko GmbH & Co. EG, Germany Raw Materials for Priction Formulations Mr. Habib Rahamatullah Indian Priction Material Engineering Company, New Delhi Brake Friction Material - Basic Principles behind Formulatio Mr. P.M. Venkatasamy

Pyramid Precision Engineering India (P) Ltd., Priction Material Testing - F.A.S.T. Machine to Inertia Dynamometer (Testing in the company premises) Dr. K.L. Sundar Krishnas

Environmental Impact of Friction Material - Need for





Global Technical Adviser

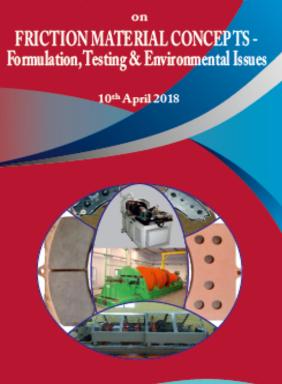
Legislation in India

Principles behind Clutch Design Dr. Mukesh Kumar

Theper Institute of Engineering & Technology Copper-free Non-subston Organic (NAO) Priction 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

Organized by



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 (Engineers R&D)
M/s. Carlisle Brake & Friction, Chennai (Engineers R&D)
M/s. Meritor Ltd., Banglore 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