RubberCAE India 2024

Conference on Rubber Testing & CAE Simulation

29-30th January 2024 @ Fairfield Marriot, Rajajinagar, Bangalore

Workshop on Best Practices of

Rubber/Elastomer Material & Product Testing for Strength and Durability

01-Feb-2024, Thursday, 10:00 am - 05:00 pm

Venue : ITW India Private Limited (BISS), 497E, 14th Cross Road, Maruthi, Nagar, Peenya, Bengaluru, Karnataka 560058

Coupon level testing of elastomeric specimens of specified geometry follow standard practices and automotive/aerospace structural elastomeric components are tested as per the standards set by the OEM's.

Elastomers are subject to static as well as dynamic testing. Static testing of elastomers involves stretching or compressing the specimen under test at defined speed to obtain properties like Elastic Modulus, extension (and/or strength) at break or specimen failure. The dynamic tests are conducted under in-situ (or actual operational) conditions to obtain properties like dynamic modulus, loss modulus, tan-delta etc. Cyclic or spectrum loading are conducted to estimate fatigue life.

The data obtained from these tests help engineering design & performance evaluation of the component for the stated application.

ITW-India Private Limited has developed and supplied a wide variety of uniaxial and multi-axial elastomer test systems specifically for the applications like fatigue and durability, tensile and compression, resonance search, dynamic mechanical analysis (DMA) for elastomeric coupons as well as components like engine mounts, bushes, suspension, and air springs. We also run the biggest test laboratory in the country that operates 24/7, 365 days catering to testing services in material and structural testing.

Workshop Schedule

10.00 am - 01.00 pm

Session 1 : Introduction to Rubber/Elastomer Testing and Procedures

- Hyperelastic Module
- Core Fatigue Module
- Intrinsic Strength Module
- Extended Life Module
- Thermal Module
- Nonrelaxing Module
- Ozone Module
- Reliability Module
- Creep Module
- Cyclic Softening Module

Session 2 : Testing Equipments, Instruments, Procedures Introduction to ITW -India

01-00pm - 02.00 pm - Lunch Break

02-00pm - 05.00 pm

- ***Walkthrough of Testing Facilities***
- ***Demonstration of Tests & Procedures***
- ***Discussion and closure***

Workshop Partner

BISS INSTRON

Contact

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For ONLY workshop participants : INR 3000.00 + Tax per workshop
Participants who also registered for the conference can avail 20% discount on workshop fee.

For Registration Contact

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