

DEPARTMENT OF MECHANICAL ENGINEERING

A Report on WEBINAR

TRIBOLOGY: Externally Pressurized Porous Journal Bearings

Date : 06-06-2020

The webinar titled “**TRIBOLOGY: Externally Pressurized Porous Journal Bearings**” inaugurated with insights from Principle **Dr..Dola Sanjay S.** , M Tech., Ph D about recent trends in Mechanical Engineering, Real World Scenario and its Application in global world. Further, followed by valuable speech by our respected Professor & HOD Sir **Dr.J S Suresh**. The introduction of Resource person **Dr.M Phani Kumar Garu**, presently working as senior scientist , **CMERI** is initiated by Co-Convener Mr. Sk Saleem, Assistant Professor, Department of Mechanical Engineering at Ramachandra College of Engineering, Eluru followed by Online session of the Resource person.

Dr. M. Phani Kumar is presently working as senior scientist in surface engineering & tribology group at CSIR-Central Mechanical Engineering Research Institute. He received his Bachelor of Technology in Mechanical Engineering from Jawaharlal Nehru Technological University, Hyderabad and M. Tech in Industrial Tribology from Indian Institute of Technology, Delhi. He completed his PhD from Academy of Scientific and Innovative Research (ACSIR), New Delhi in the area of porous gas bearings. His areas of interest includes dry sliding wear monitoring, finite element analysis, oil analysis and modeling of porous bearings. He has published 5 SCI journal papers, 2 international conference papers and 2 patents.

Dr. M. Phani Kumar has given a valuable session related to the research oriented sectors in tribology. He mainly concentrated on the Externally Pressurized Porous Journal Bearings which have immense research scope . He explained all the practical applications and research methodologies of the tribology and given a great path to those who have an idea to lead in research path.

Types of Lubrication

- Hydrodynamic lubrication
- Hydrostatic lubrication
- Elasto-hydrodynamic lubrication
- Squeeze film lubrication

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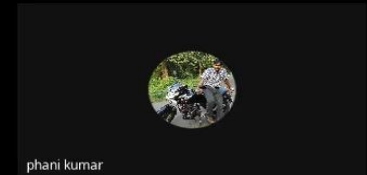


Basic operating principle

Pressure Profile

Pressure Profile under load

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The Webinar On “**TRIBOLOGY: Externally Pressurized Porous Journal Bearings**” came to an end with Vote of Thanks given by Co-Convener Mr. Sk Saleem, Assistant Professor, Department of Mechanical Engineering in Ramachandra College of Engineering, Eluru

Convener

Dr.JS Suresh M Tech. Ph D

Principal

Dr. Dola Sanjay S M Tech. Ph D