



ADHI COLLEGE OF ENGINEERING & TECHNOLOGY

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GUEST LECTURE

On

BIOLUBRICANT and BIODIESEL from RAPESEED OIL

A guest lecture on “Bio-Lubricant and Bio-Diesel from Rapeseed Oil” was organized by the department of Mechanical Engineering, on 25- 02-2017 at 10.30am in Conference Hall. Of late, many research works emphasize on the necessity of eco-friendly alternate fuel and reduce the effect of CO₂/CO emission leading to global warming all over the world.

For creating awareness in the field of eco-friendly fuel for future needs and various naturally extraction process of fuel, we had arranged this guest lecture and the expert, Dr. S. ARUMUGAMM.E, Ph.D., Associate Professor, Department of Mechanical Engineering, SCSVMV University, Kancheepuram, was invited to address the gathering on the same issue.

ABOUT THE PROGRAM

He delivered the brief introduction about the importance and composition of rapeseed oil and their extraction process. Also, he highlighted the importance of the following topics,

1. Chemical modification of rapeseed oil to eradicate solidification
2. Tribology investigation by using HFFR
3. Effects and problems in conventional fuel
4. Advantages of vegetable oil based lubricants
5. Importance Copper oxide Nano particle
6. Reducing of Wear rate in the engine by using Nano particles
7. Reducing technique of Coefficient of friction
8. Elimination of Oxidation using CuO NPs
9. Huge amount of energy by combining hydrogen with oxygen
10. Utilization of hydrogen in vehicle safely

11. Expenses for importing fuel in India
12. How hydrogen act as energy carrier
13. Various emission by combustion of fossil fuels
14. Improving the percentage of using hydrogen as a fuel

At the end of the session, all the queries raised by the participants were addressed by the eminent speaker with great clarity.

