

**REPORT ON THE INVITED LECTURE ON “SUPRAPHOBIC MATERIALS: TECHNOLOGY
INSPIRED BY NATURE” CONDUCTED BY DEPT. OF CHEMISTRY, GOVT. COLLEGE
MOKERI**

Title: Super Hydrophobic Materials: Technology Inspired by Nature

Speaker: Dr. A. Sujith, Professor, Dept. of Chemistry, NIT Calicut

**Organized by: Department of Chemistry, Government College Mokeri In association with:
Internal Quality Assurance Cell**

The Department of Chemistry, Government College Mokeri, in association with the Internal Quality Assurance Cell, organized an invited lecture on "Super Hydrophobic Materials: Technology Inspired by Nature" by Dr. A. Sujith on 13.11.2024. The lecture aimed to explore the fascinating world of super hydrophobic materials and their potential applications. Dr. Sujith's lecture commenced with an introduction to super hydrophobic materials, highlighting their unique properties and potential applications. He explained how nature has inspired the development of these materials, citing examples such as the lotus leaf and gecko feet.

Dr. Sujith then delved into the principles of super hydrophobicity, discussing the role of surface roughness, chemical composition, and hierarchical structures. He also presented various techniques for fabricating super hydrophobic surfaces, including sol-gel processing, electrospinning, and lithography. The speaker showcased several applications of super hydrophobic materials, including self-cleaning surfaces, water repellency, anti-icing and anti-fogging coatings, biomedical applications.

The invited lecture by Dr. A. Sujith was a resounding success, providing valuable insights into the fascinating world of super hydrophobic materials. The lecture was well-attended by students and faculty members from the Department of Chemistry, Govt. College Mokeri and students from CKG College, Perambra.



Based on the lecture, the following recommendations are made: Conducting more lectures and workshops on emerging topics in materials science, Encouraging interdisciplinary research collaborations. Exploring potential applications of super hydrophobic materials in various fields.

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