

## ECS 2025 Product Presentation

Title of the lecture: \*

Exploring Potential PFAS Alternatives.

Subject classification: \*

Coating raw materials

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Function:

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### **Abstract**

Silanes and silicone coating technologies have emerged as promising candidates for PFAS alternatives due to their unique chemical properties and utility. This discussion explores their design and application in industries such as textiles, automotive, and construction. It highlights the mechanisms by which these materials achieve water and oil repellency, their performance compared to traditional PFAS-based coatings, and their potential ecological impacts. Advances in silane functionalization and silicone formulation showcase their potential to meet evolving demands for performance and sustainability.