

Inhalation of Nanomaterials: Interactions, Risks, and How We Study Them.



A colloquium sponsored by the Society of Physics Students and the American Chemical Society

Morgan Heckman

PhD Candidate at Duke in Mechanical Engineering and Material Science

Nanomaterials have become widely used in industrial applications, creating environmental and health hazards.

The risks of inhalation exposure for those working in these industries are not well understood. Inhaled nanomaterials interact with a variety of biomolecules, including proteins and lipids, that are present in lung fluid. These biomolecules form a corona on the surface of the nanomaterial. While the protein corona is well-studied, there have been few studies on the lipid corona and how lipids may influence the protein corona or downstream interactions with cells. Utilizing electron microscopy and other physics-based tools, we are able to examine these nanomaterials and their interactions with biomolecules and cells.



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4:00 PM EST in Jepson 225

Please contact SPS president Boone Fleenor at bffleenor@mail.umw.edu any questions!

Hosted by the Department of Chemistry and Physics

Open to all who wish to attend

