

**MATERIALS ENGINEERING**

**SEMINAR**

**“Synthesis and Characterization of Energetic Materials and other High-Nitrogen Heterocycles”**

**By**

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**Purdue MSE Preliminary Exam**

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**ABSTRACT**

This presentation will offer a brief history of energetic materials and an overview of their characterization and properties of interest. The synthesis and characterization of several novel materials as well as their experimentally and theoretically determined properties will be explored as well as their significance to the energetic community of today and tomorrow. An exploration of the nitrilimine chemical intermediate will examine existing materials as well as the new avenues for synthesis that are being researched. The presentation will also review current work in the areas of energetic materials and nitrilimine intermediated heterocycle synthesis as it pertains to active research and future projects.

**Date: Wednesday, October 19, 2022**

**Time: 3:00pm**

**Place: FLEX B121 or WebEx via <https://purdue.webex.com/meet/dpiercey>**



School of Materials Engineering