

Abstract Submitted
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Bringing High Powered Rocketry (HPR) to the physics lab
STEVEN MAIER, Northwestern Oklahoma State University — In this mini-workshop sponsored by ALPhA, I will share my experiences, successes, and failures of implementing an HPR lab into an engineering physics class. From design and simulations to construction and launches, this multi-week lab continues to evolve. Opportunities for student growth range from content, computation, and experimentation to simply learning to work with physical materials and interacting with hobbyists using technical terminology in colloquial contexts. We have found the HPR lab to be a rich experience, albeit outside the confines of a traditional physics lab. Students ultimately bring their learned experiences to the NWOSU Rocketry Team as they compete in the Argonia Cup. The current team video captures a sense of the challenge and the work involved.

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