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To: [Faculty Senate](#); [Veronica Eliasson](#); [Merritt Enders](#)
Subject: Signature Student Experience: High-Speed Photography
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High-Speed Photography of Experiments at the Edgar Mine/Explosives Research Laboratory

Name of proposers/departments: Veriona Eliason (Mechanical Engineering) and Elizabeth Holley (Mining Engineering)

Project summary:

We propose a high-tech Mines Signature Experience that brings students from all disciplines to participate in mini-research experiments at the Edgar Mine/Explosives Research Laboratory. Online communities with videos and photographs, e.g. YouTube and Instagram, are already shaping and affecting future college students and educational tools. We want to show our Mines students how high-speed photography can be used to address challenges in earth resources engineering. In a one-day event, students will have access to stations with different cameras (DSLRs to ultra high-speed) to photograph short experiments. The stations will be built in collaboration with course faculty (geology, mining engineering, mechanical engineering, chemistry). Students will visit each station, take pictures, and learn about the experiments and equipment. Students may choose to participate as a competition, where they post photos and videos on social media with the Mines hashtag. The students with the most “likes” will win the opportunity to photograph their own experiment... PR, tech, and a field experience all in one!

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