

CSAAPT Spring 2022 Semi-Virtual Meeting



Chesapeake Section of the
American Association of Physics Teachers
Spring 2022 Semi-Virtual Meeting
April 2, 2022 @ **RADFORD** UNIVERSITY

Contribution ID: 6

Type: **Talk**

Impulse and Concussions

Saturday, April 2, 2022 3:15 PM (15 minutes)

Football players experience repeated impacts to their bodies and heads. Football helmets are designed to reduce the damaging effects of impacts. In this project, students apply the concept of impulse to design and test padding systems constructed from repurposed packing materials. Students use accelerometers to measure the overall peak acceleration and rotational velocity, then apply those values to impact criterion formulas.

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Session Classification: Afternoon Session 1