

## CSAAPT Fall 2022 Semi-Virtual Meeting



Chesapeake Section of the  
American Association of Physics Teachers  
Fall 2022 Semi-Virtual Meeting  
October 22, 2022 in Falls Church, VA

Contribution ID: 9

Type: **talk (15-minute)**

### **Effectiveness of simulation-based lesson in introductory physics classes**

*Saturday, October 22, 2022 2:15 PM (15 minutes)*

Physics is a science that can be difficult for students to understand. It involves a lot of abstract thinking. It can be difficult for students to conceptualize the concepts learned. Our studies show that simulations-based lessons have the potential to engage students in deep learning that empowers their understanding as opposed to traditional learning which requires mostly memorization. In this talk, we show some examples of the simulation-based lesson and how effective they are.

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**Session Classification:** Afternoon Session 1B (Chair: Tatsu Takeuchi, Zoom Monitor: Elena Kuchina)